

6721764

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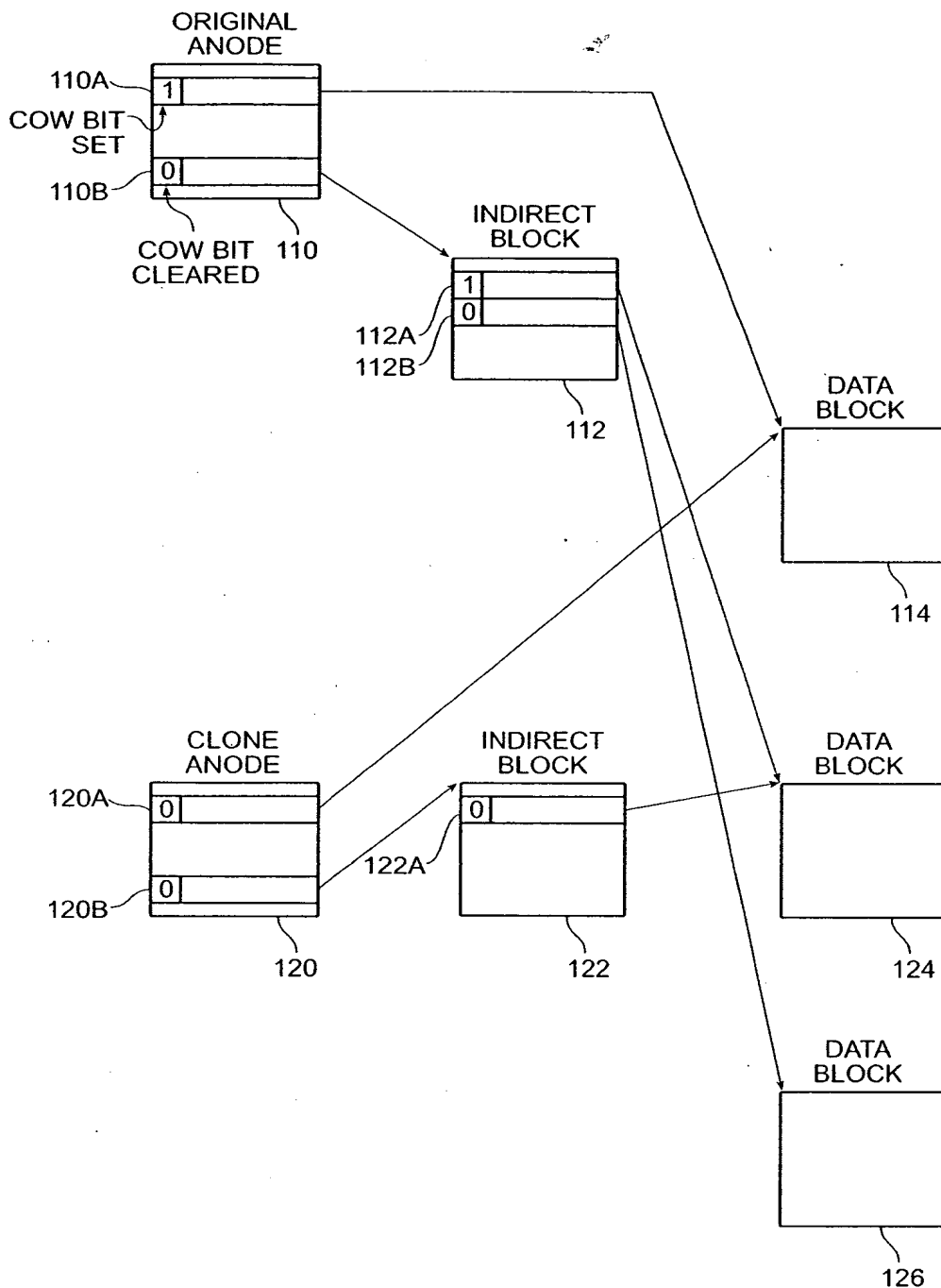
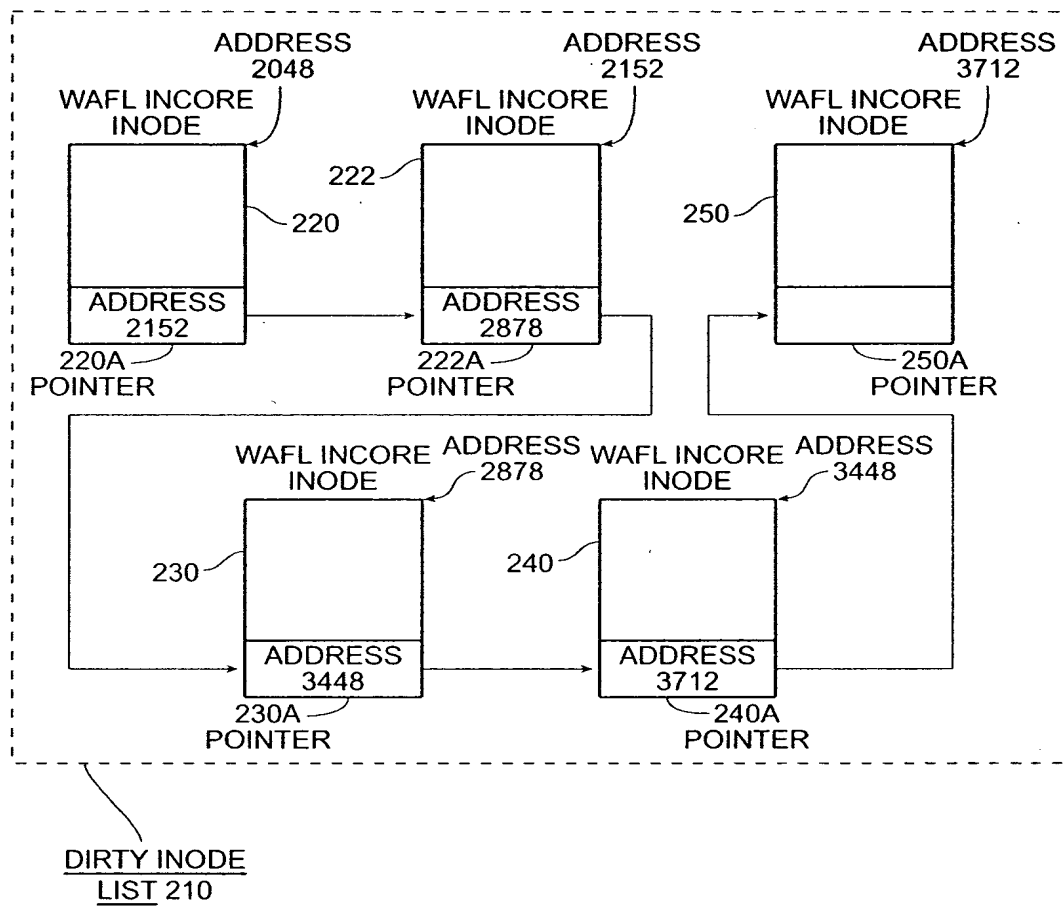


FIG. 1
 PRIOR ART

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ON-DISK
INODE

16 BLOCK
NUMBERS HAVING
SAME LEVEL OF
INDIRECTION 310B

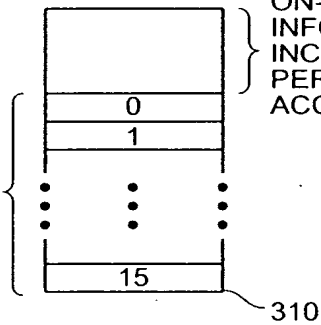


FIG. 3

099443 "091101
101160" 22545660

LEVEL 0
INODE

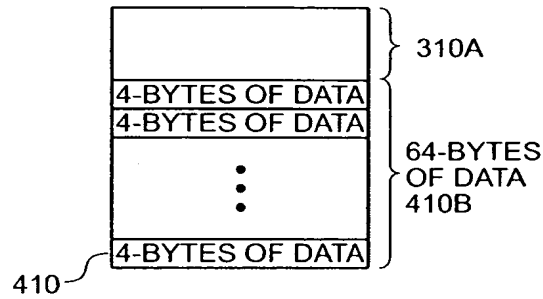


FIG. 4A

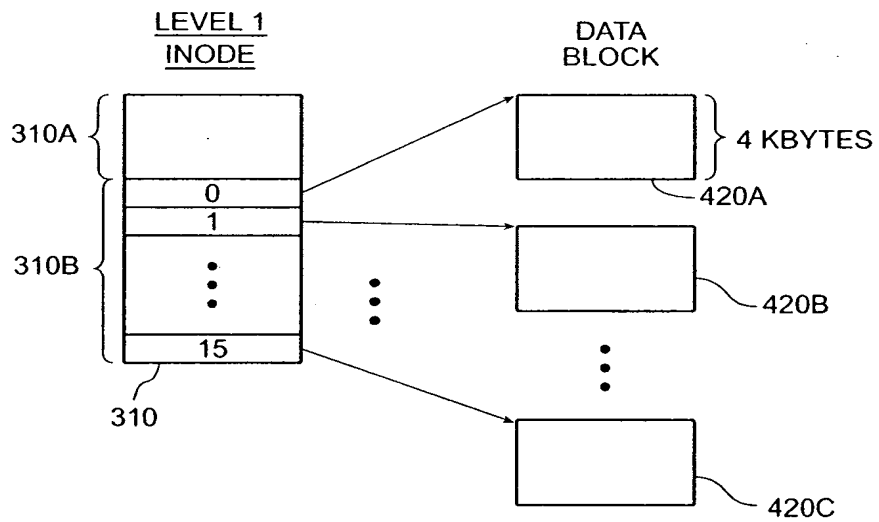


FIG. 4B

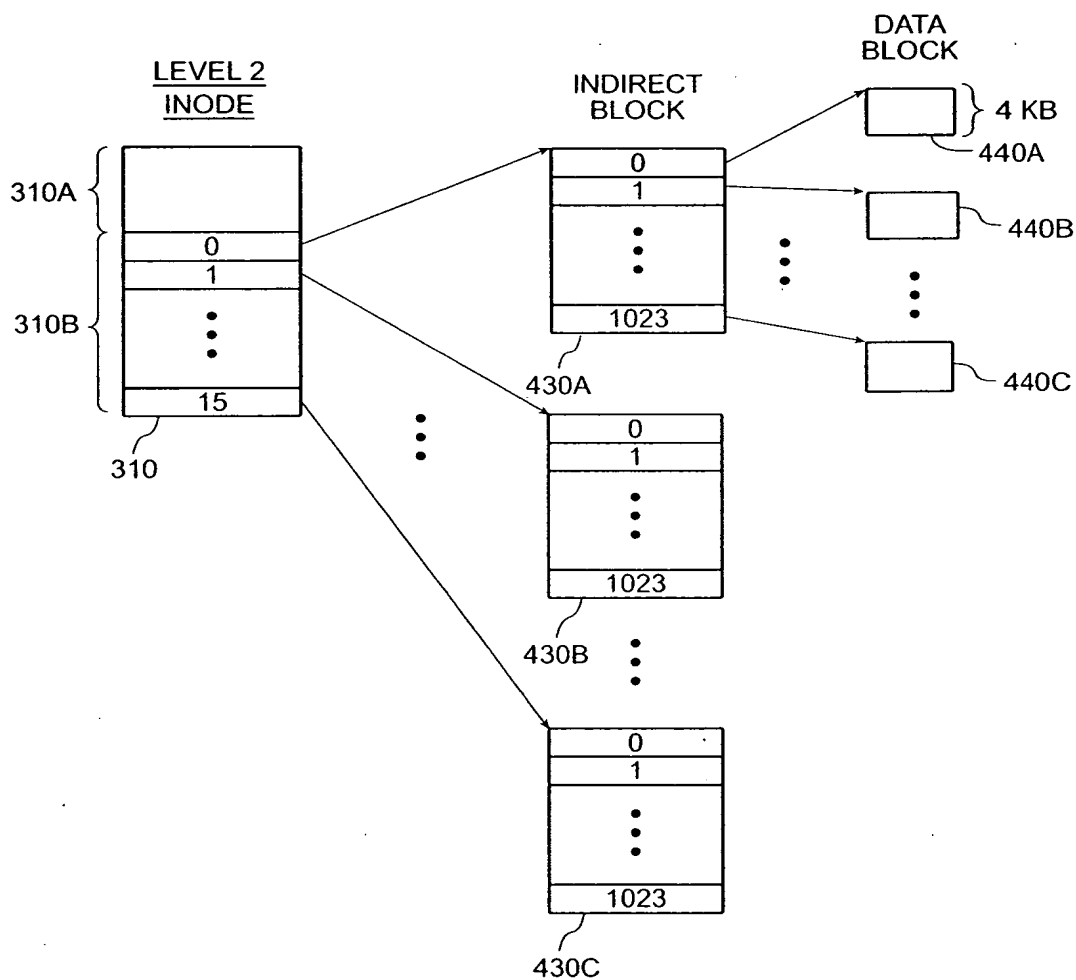


FIG. 4C

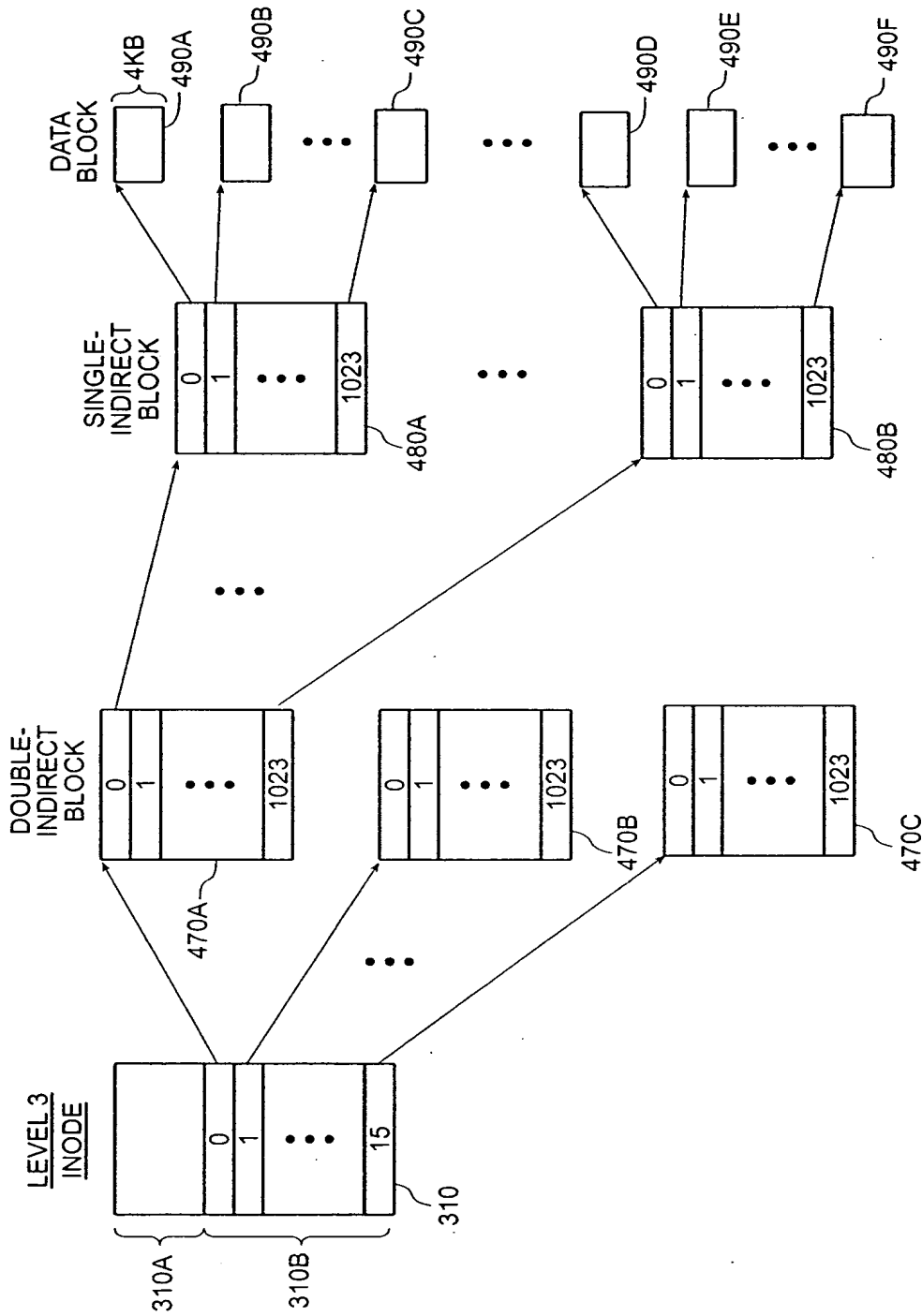


FIG. 4D

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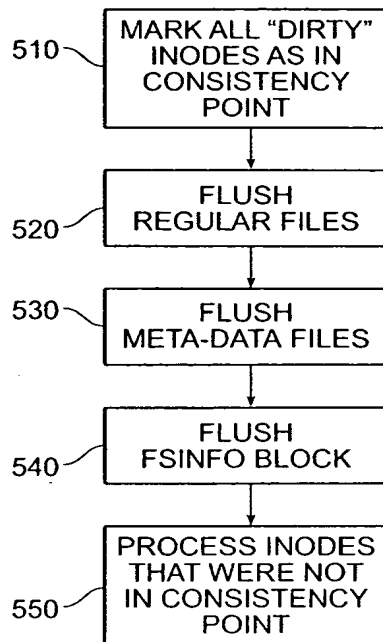


FIG. 5

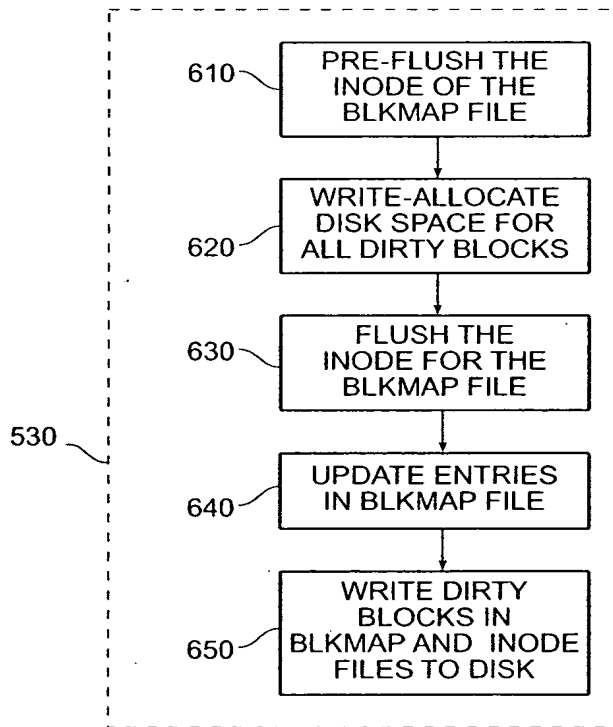


FIG. 6

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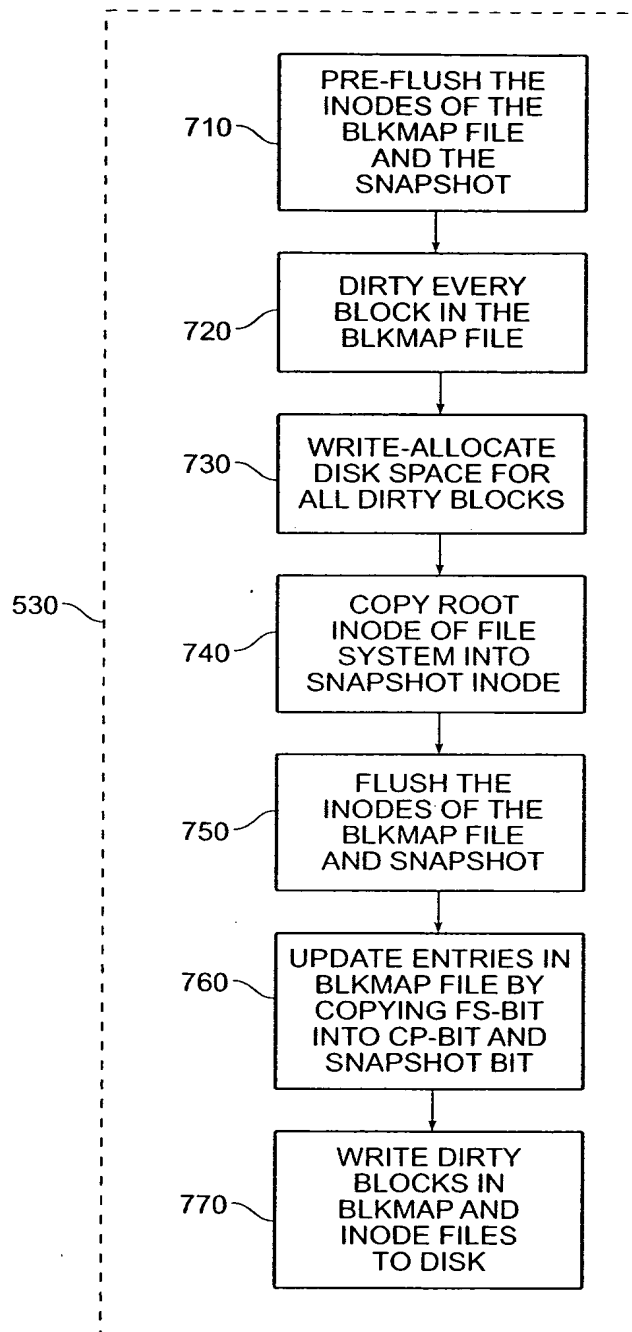


FIG. 7

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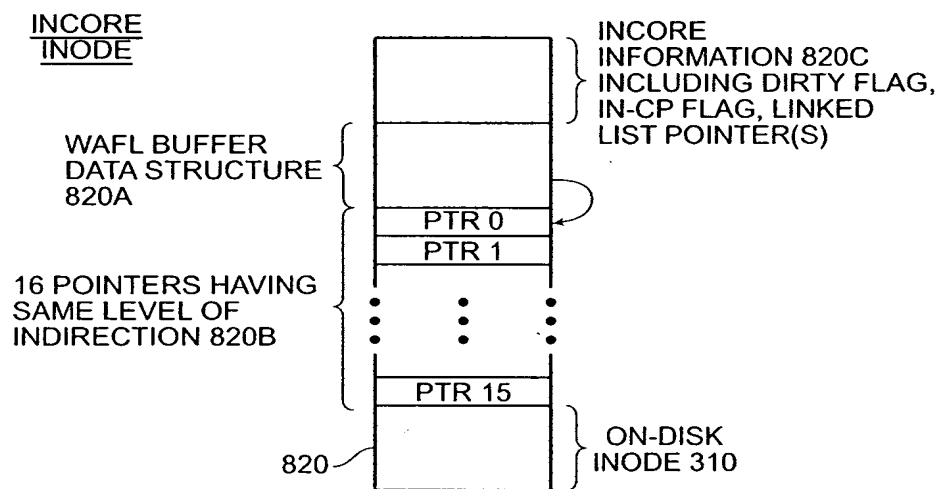


FIG.8

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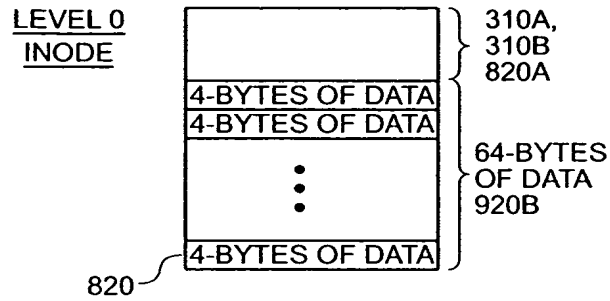


FIG. 9A

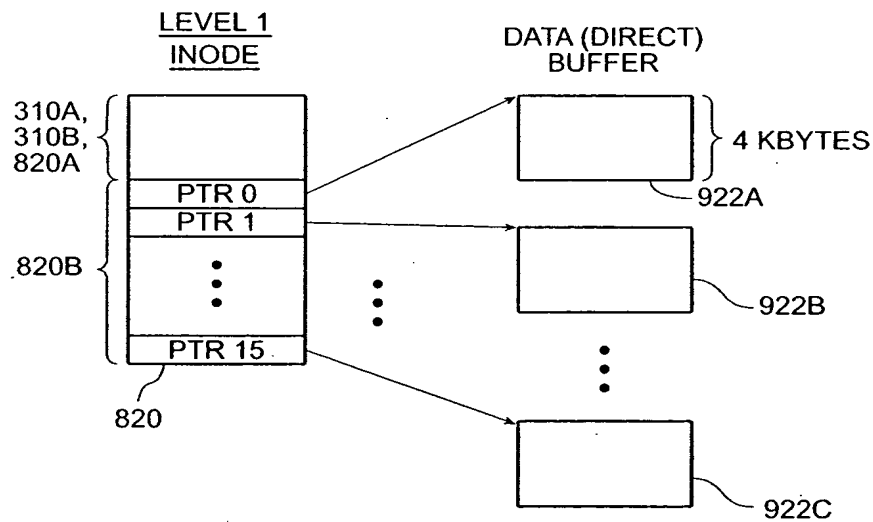


FIG. 9B

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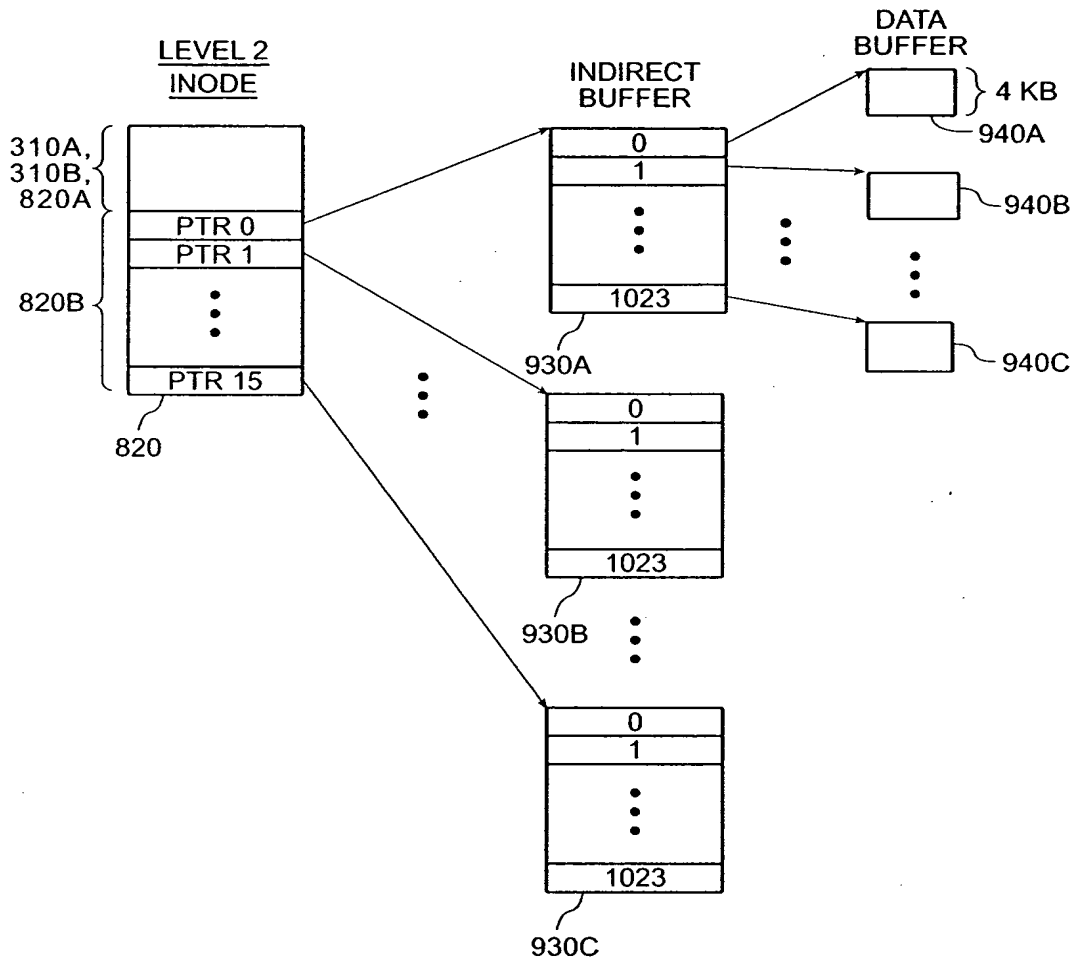


FIG. 9C

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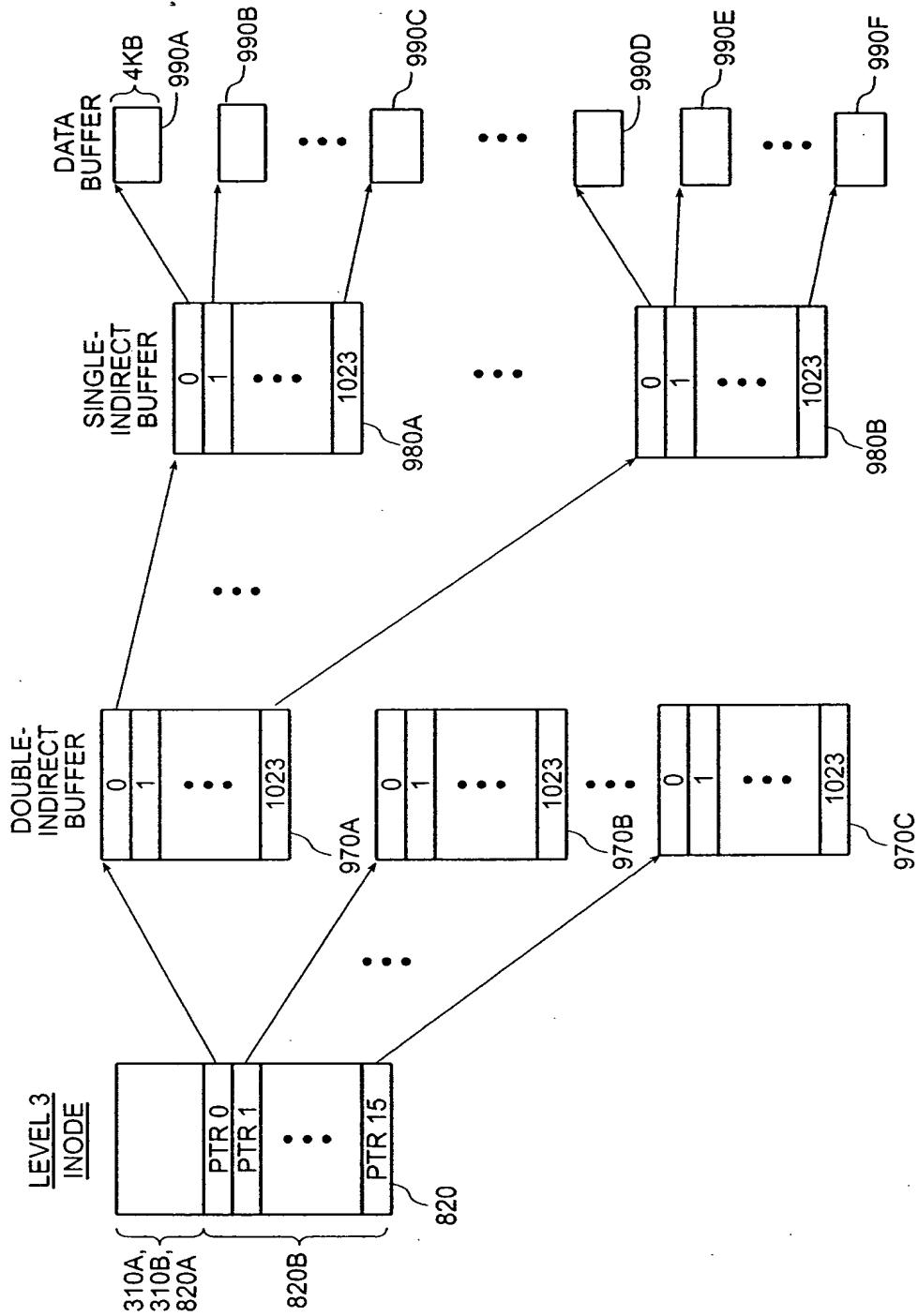


FIG. 9D

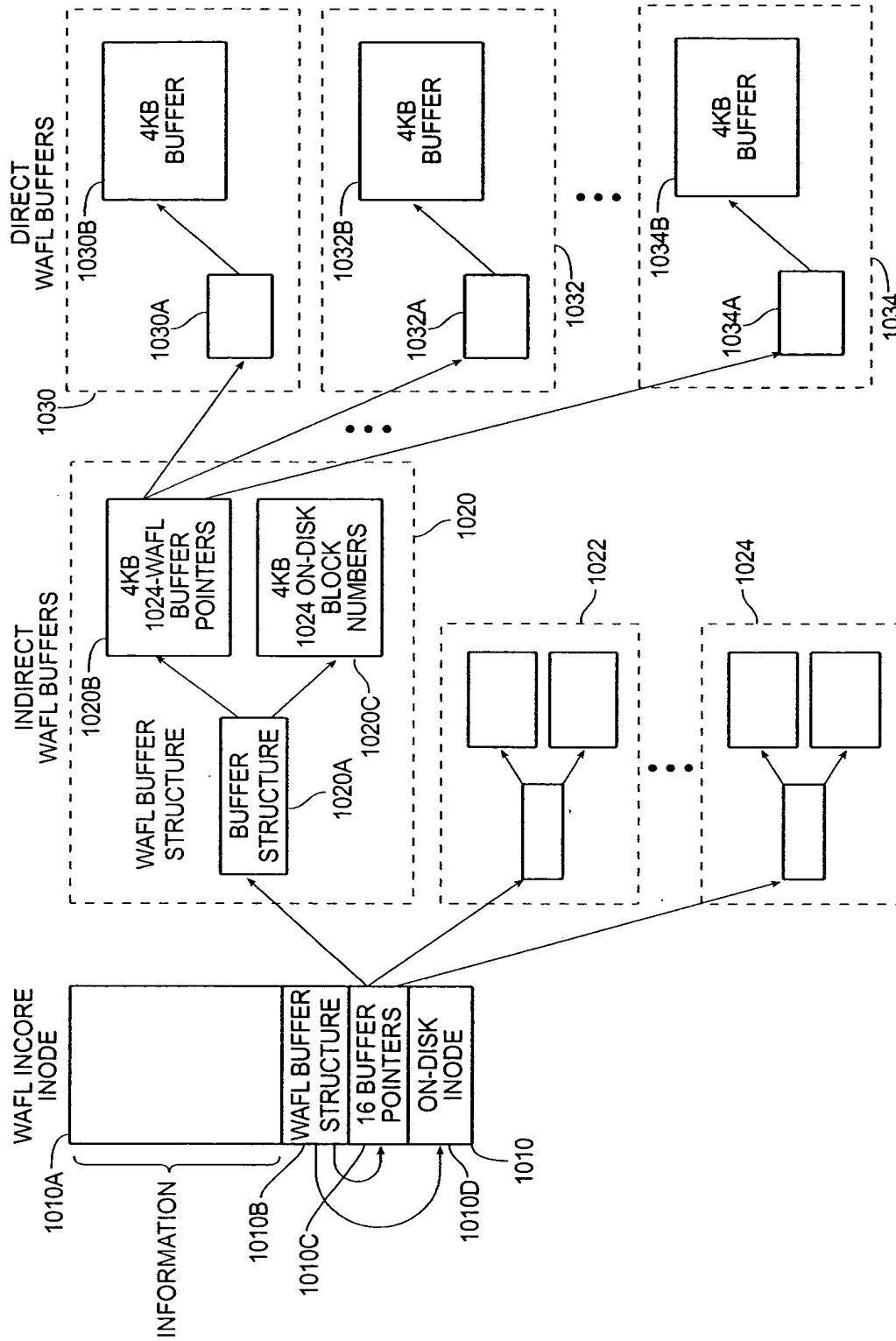


FIG. 10

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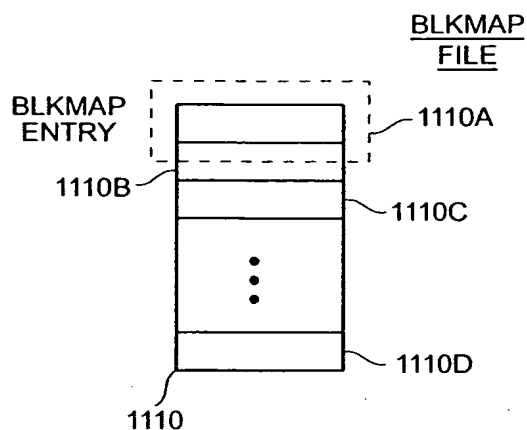


FIG. 11A

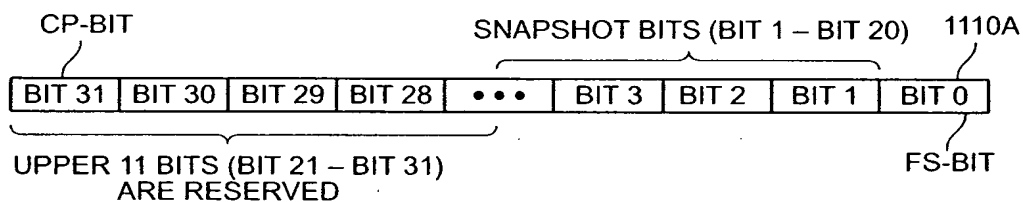


FIG. 11B

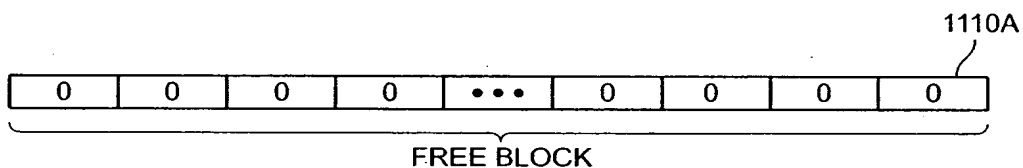


FIG. 11C

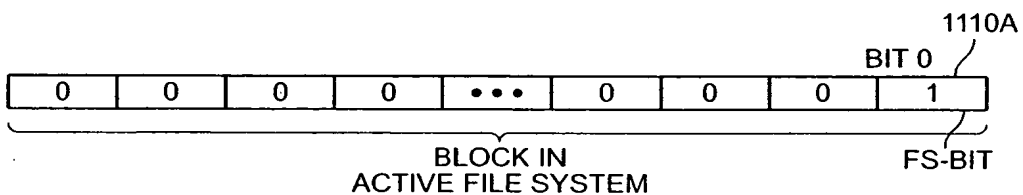
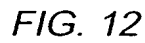


FIG. 11D



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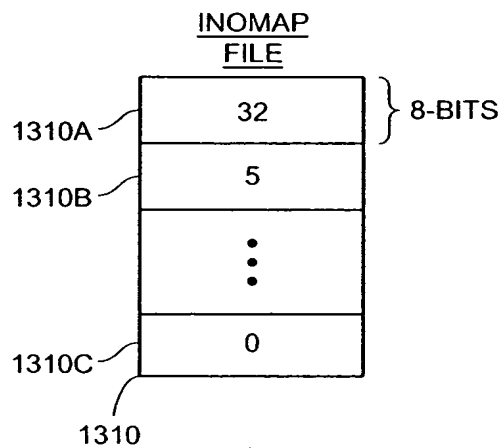


FIG. 13A

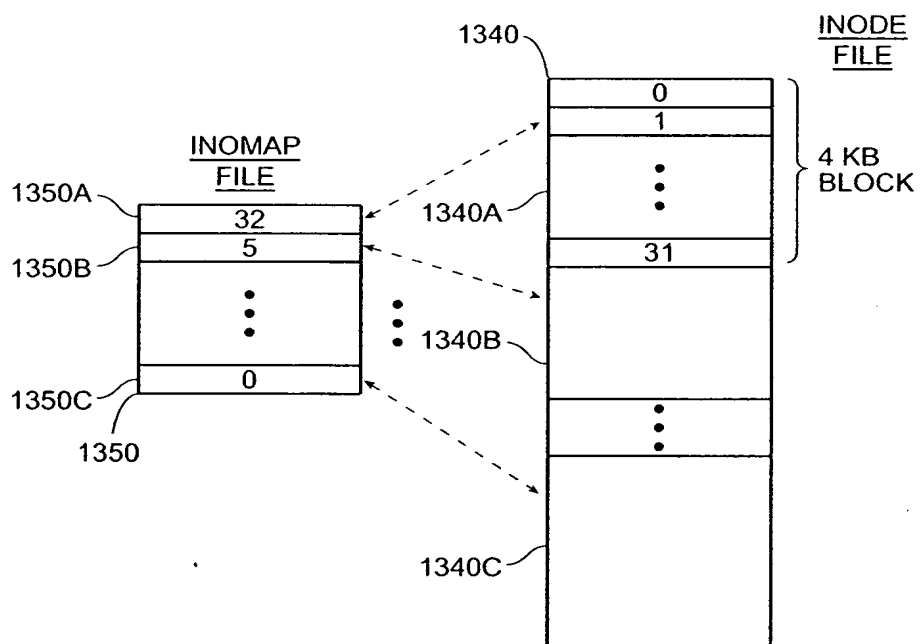


FIG. 13B

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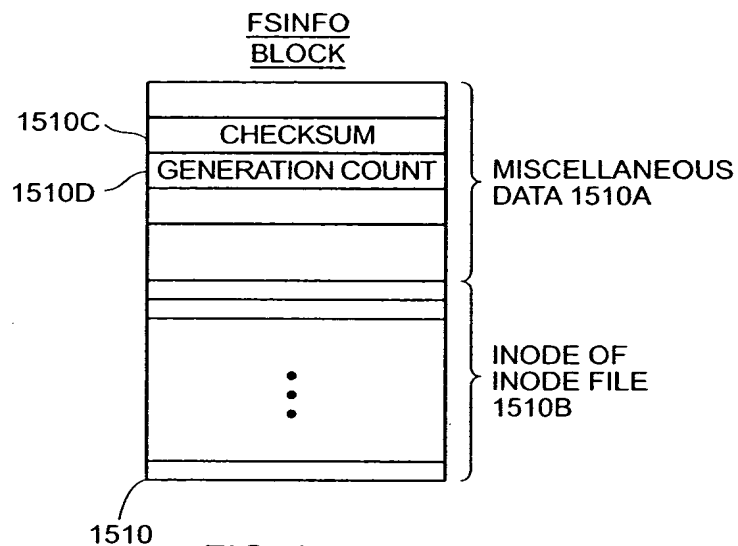


FIG. 15

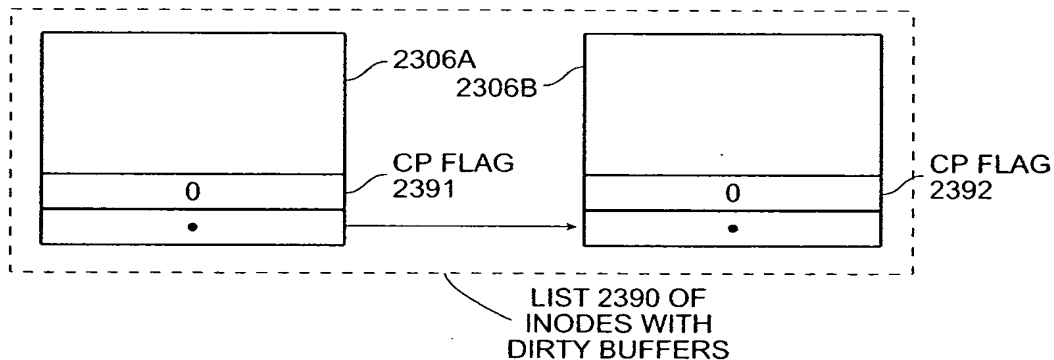


FIG. 17A

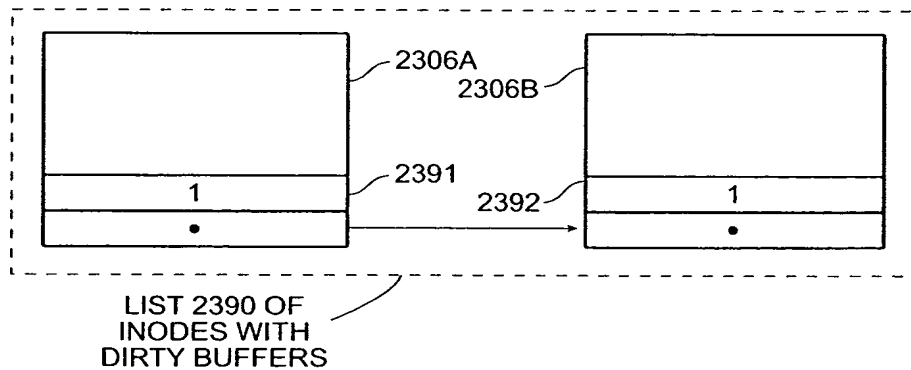


FIG. 17I

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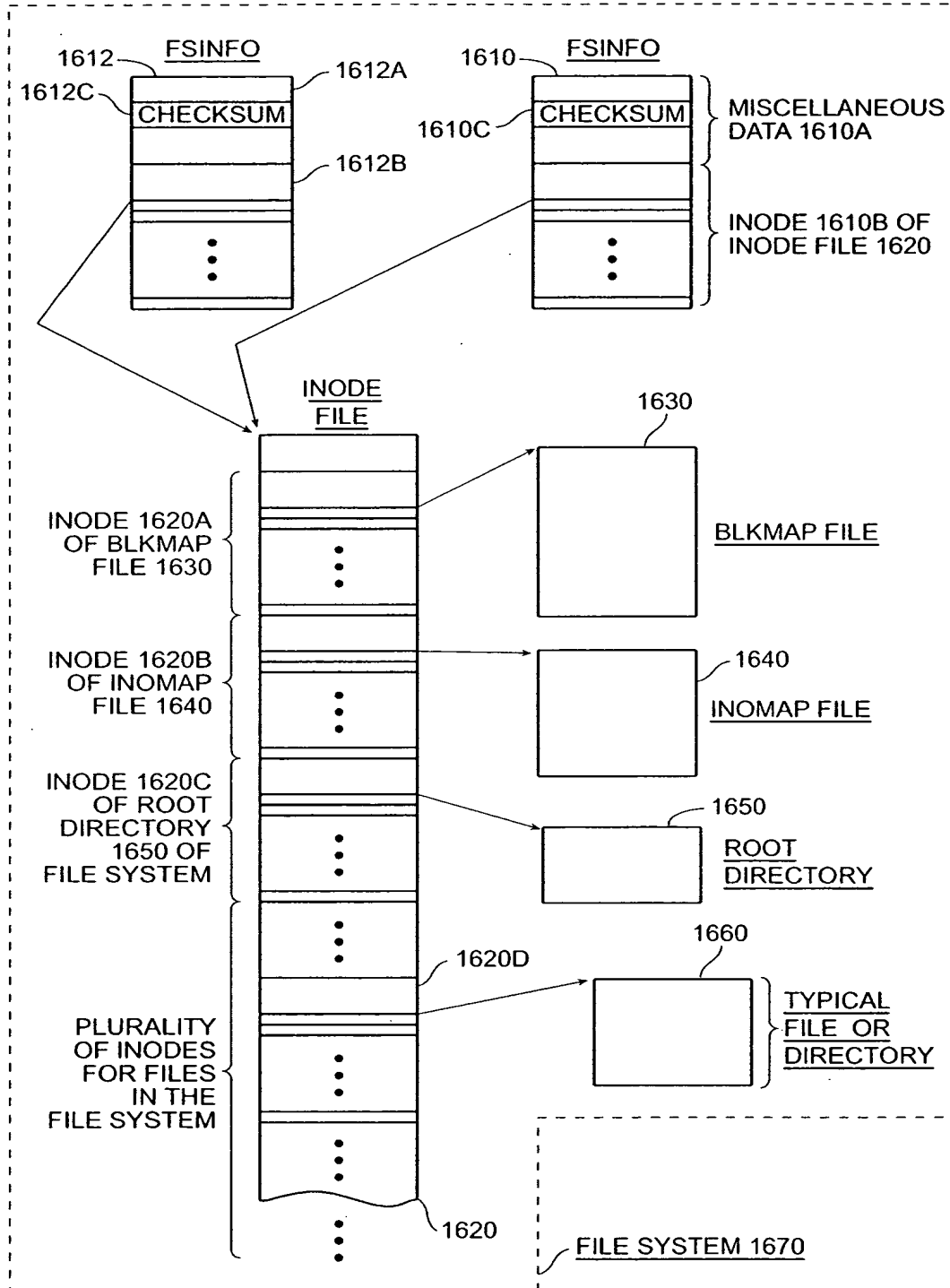


FIG. 16

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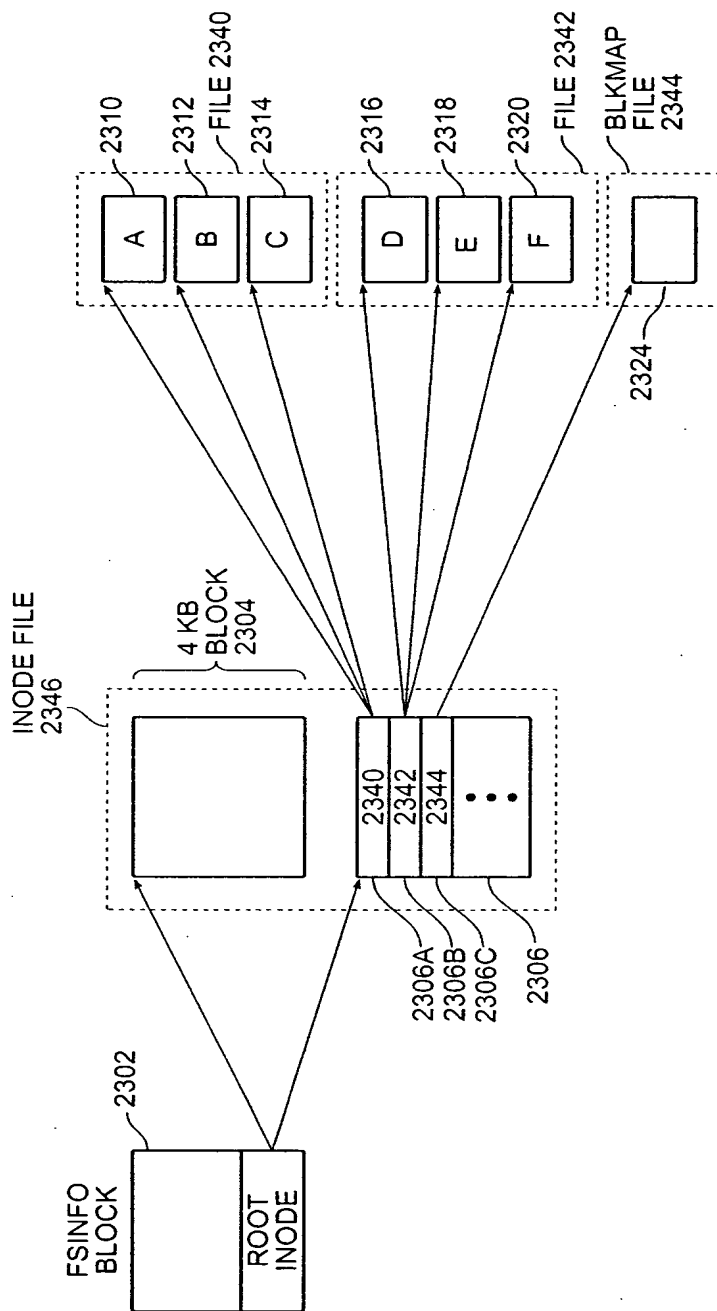


FIG. 17B

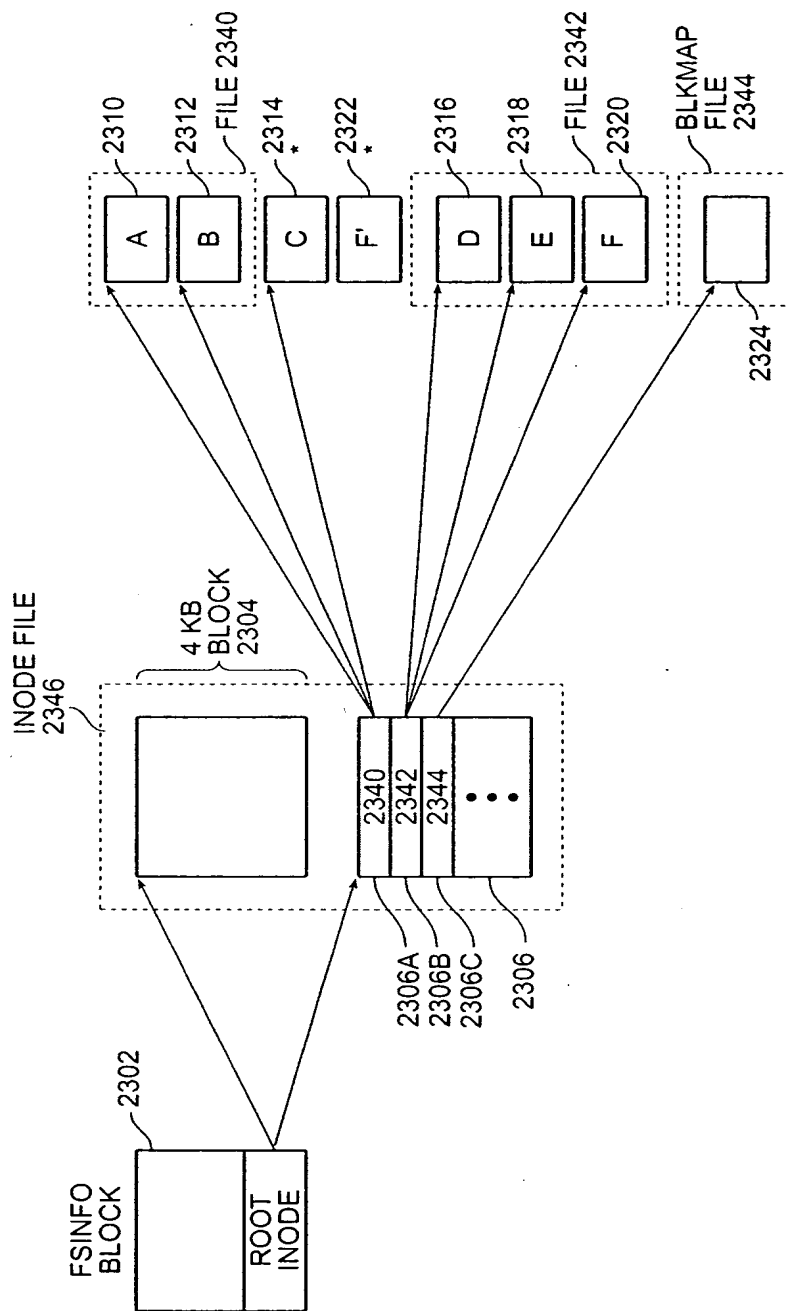


FIG. 17C

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	BIT 31 (CP-BIT)		BIT 1	BIT 0 (FS-BIT)	
2304	1	...	1	1	2324A
2306	1	...	1	1	2324B
2308	1	...	1	1	2324C
2310	0	...	0	0	2324D
2312	1	...	1	1	2324E
2314	1	...	1	1	2324F
2316	1	...	1	0	2324G
2318	1	...	1	1	2324H
2320	1	...	1	1	2324I
2322	1	...	1	1	2324J
2324	0	...	0	0	2324K
2326	1	...	1	1	2324L
2328	0	...	0	0	2324M
		⋮			

4 KB BLOCK 2324

FIG. 17D

BLOCK #	BIT 31 (CP-BIT)		BIT 1	BIT 0 (FS-BIT)	
2304	1	...	1	1	2326A
2306	0	...	1	0	2326B
2308	1	...	0	1	2326C
2310	1	...	1	1	2326D
2312	1	...	1	1	2326E
2314	0	...	1	0	2326F
2316	1	...	1	1	2326G
2318	1	...	1	1	2326H
2320	0	...	1	0	2326I
2322	1	...	0	1	2326J
2324	0	...	1	0	2326K
2326	1	...	0	1	2326L
2328		...			
		⋮			

4 KB BLOCK 2326

FIG. 17J

FIG. 17C

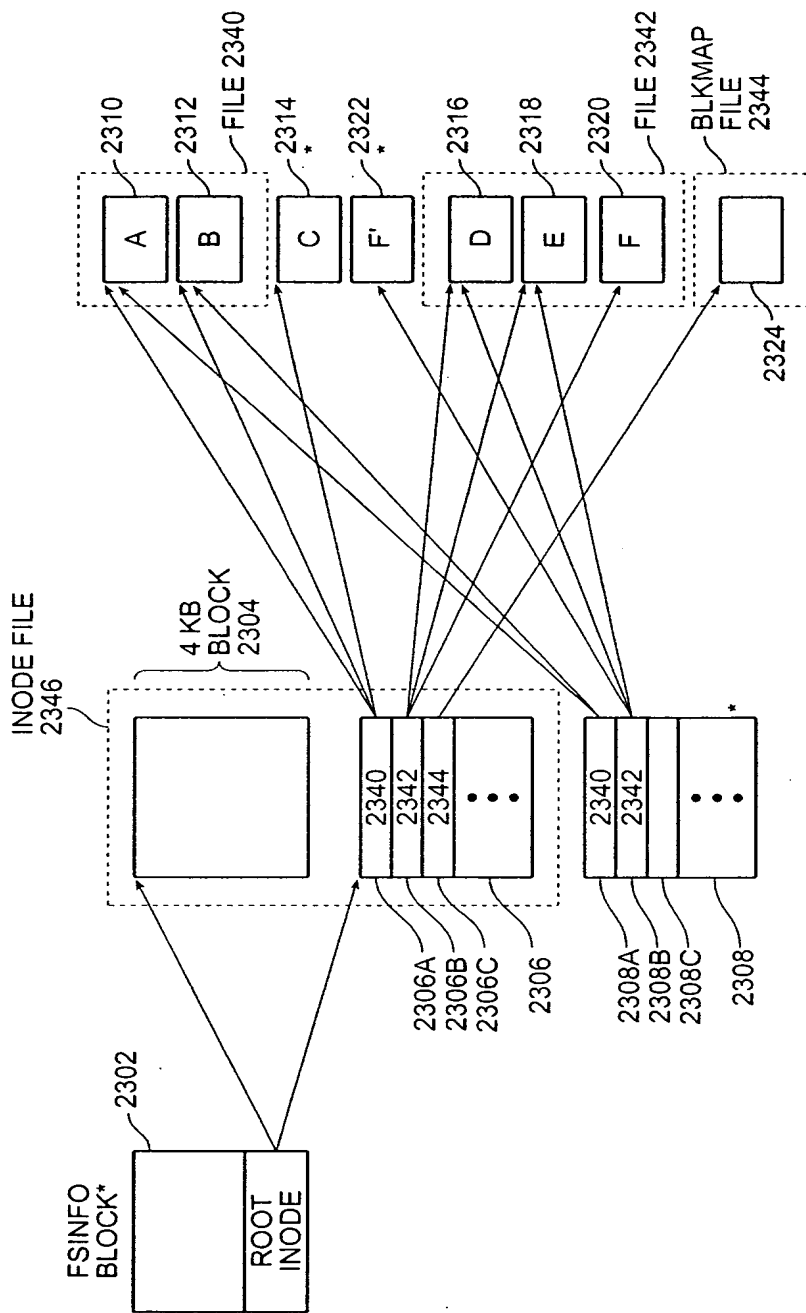


FIG. 17E

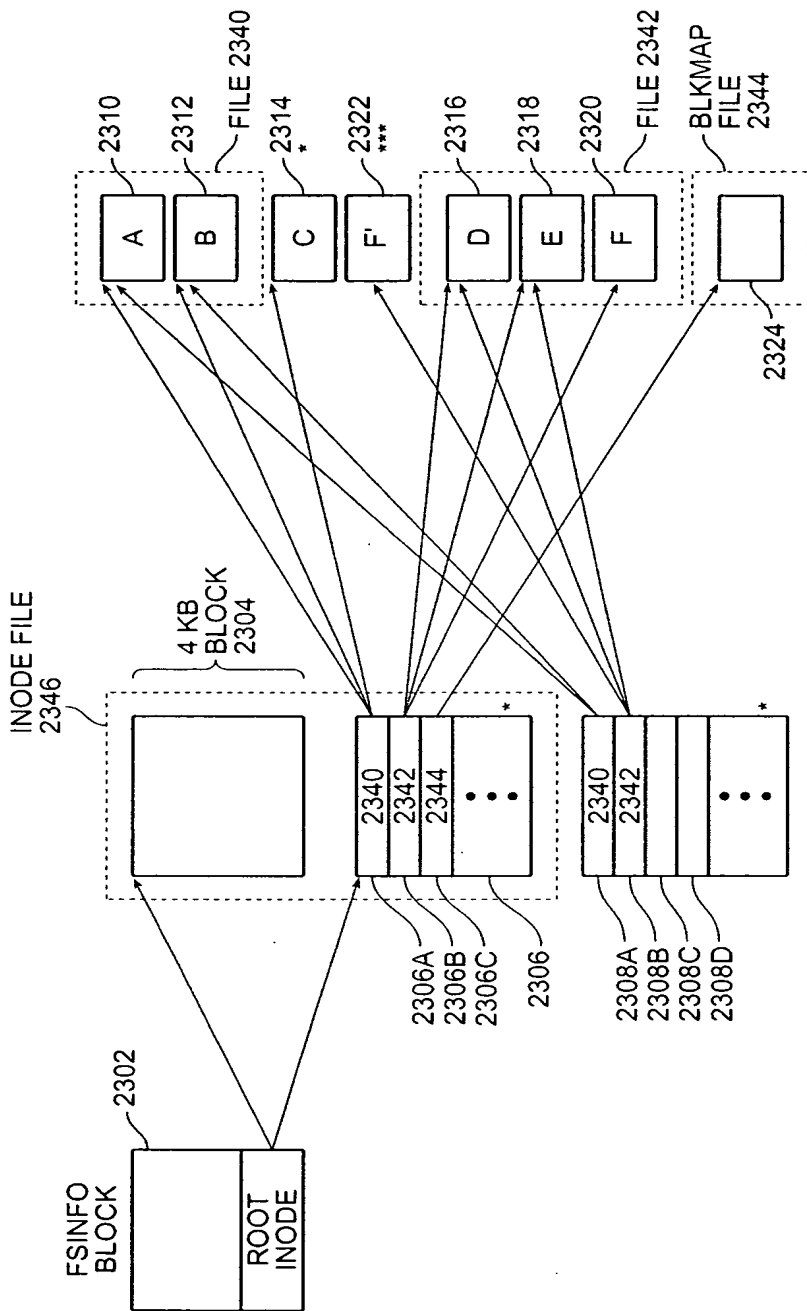
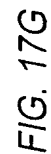


FIG. 17F



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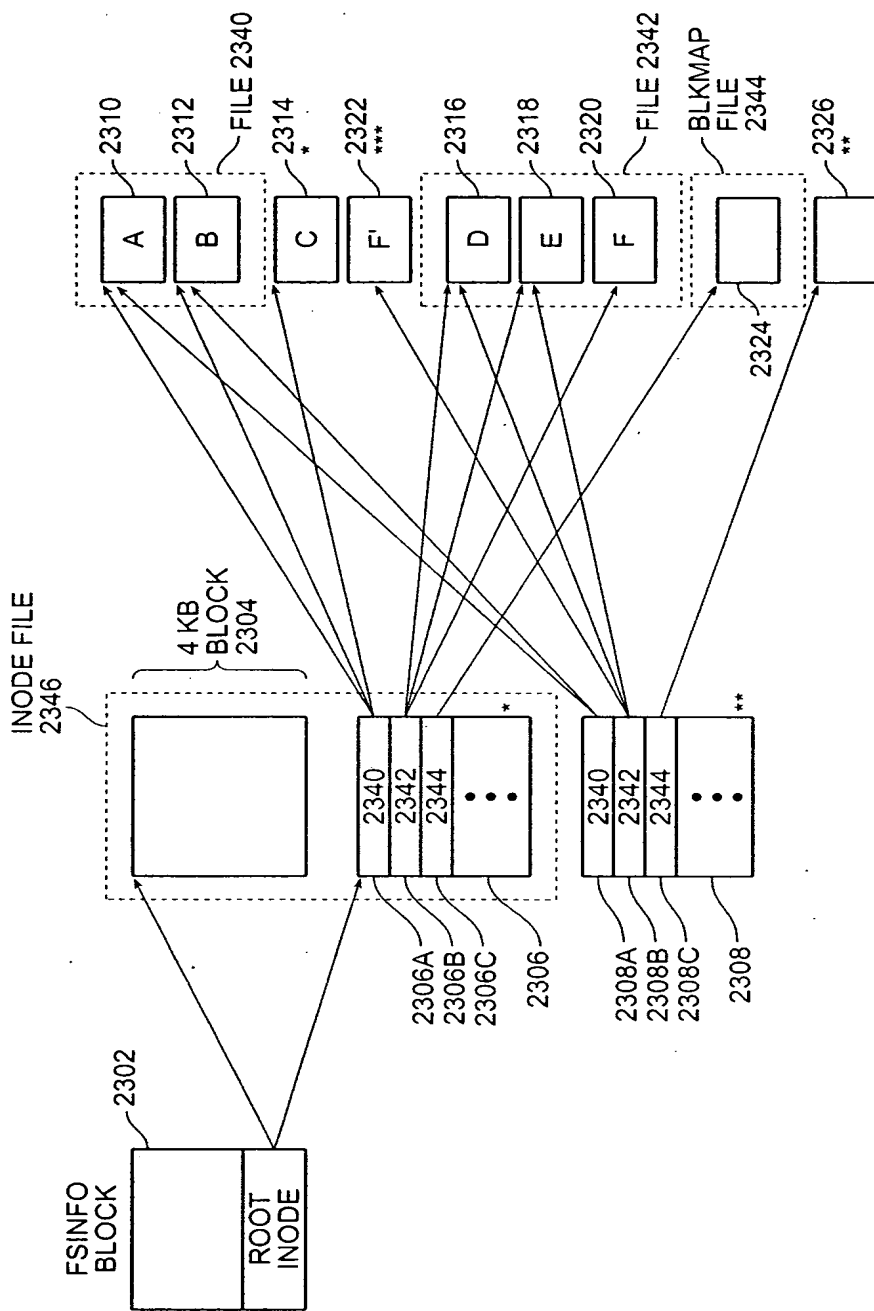


FIG. 17H

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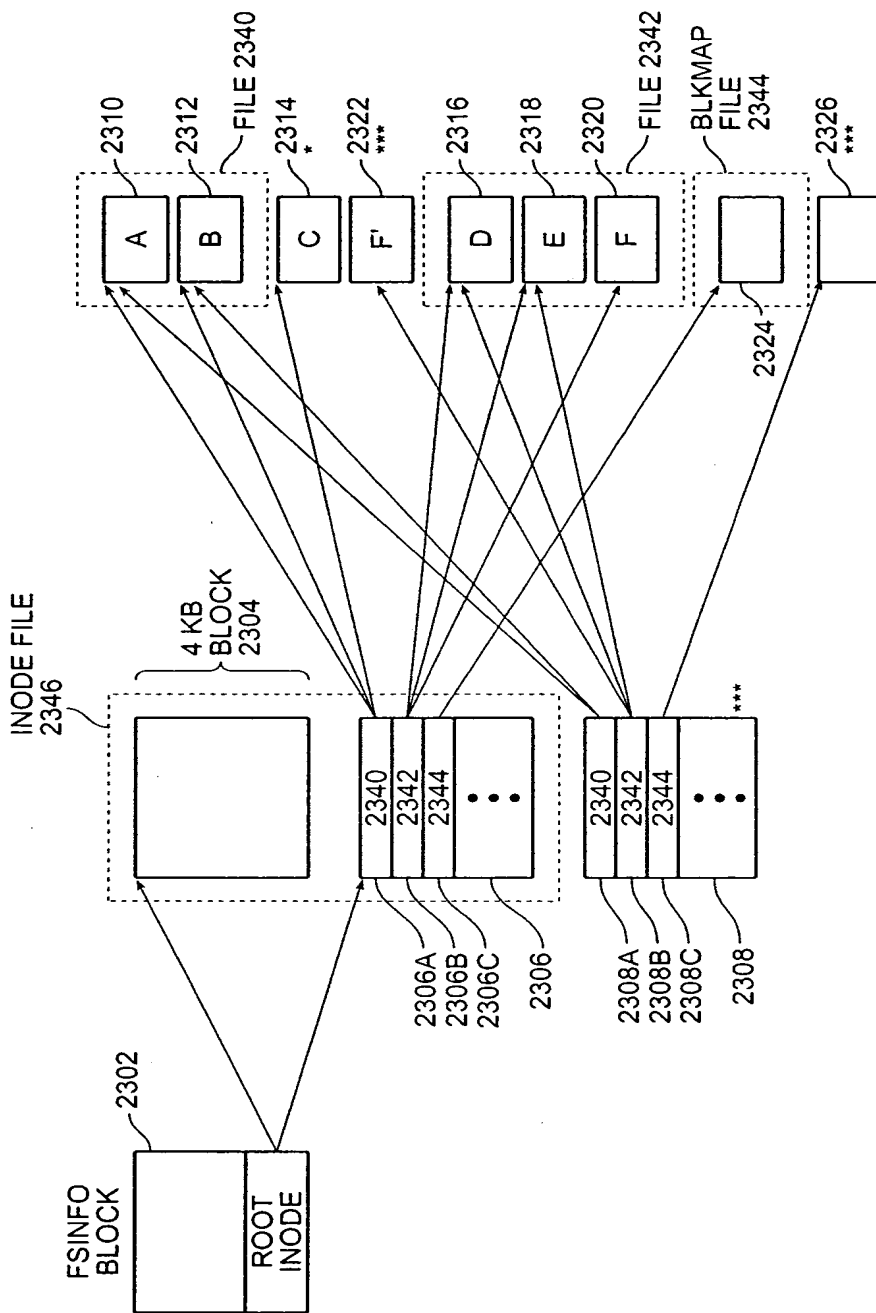


FIG. 17K

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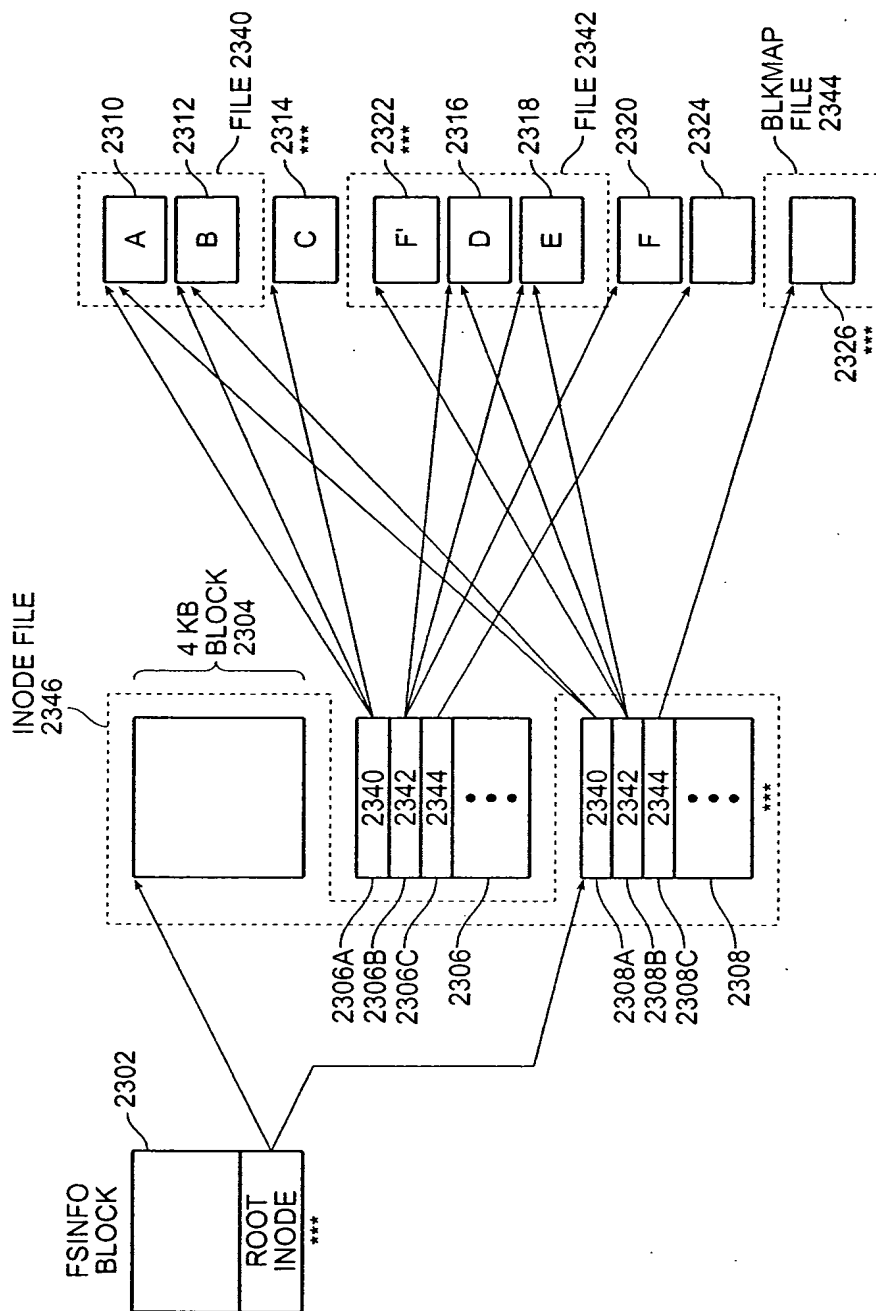


FIG. 17L

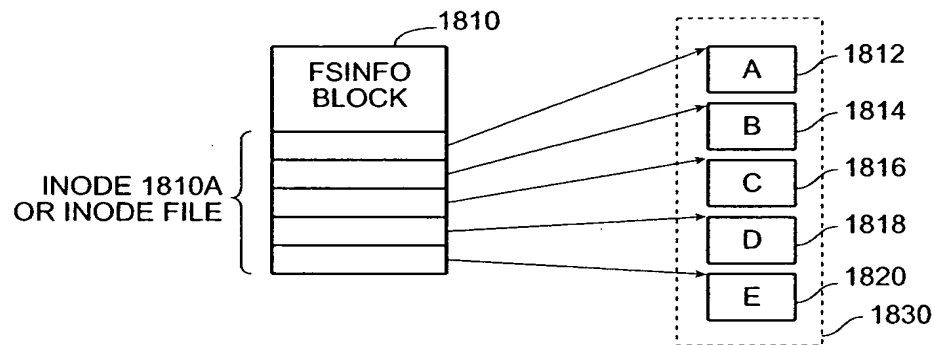


FIG. 18A

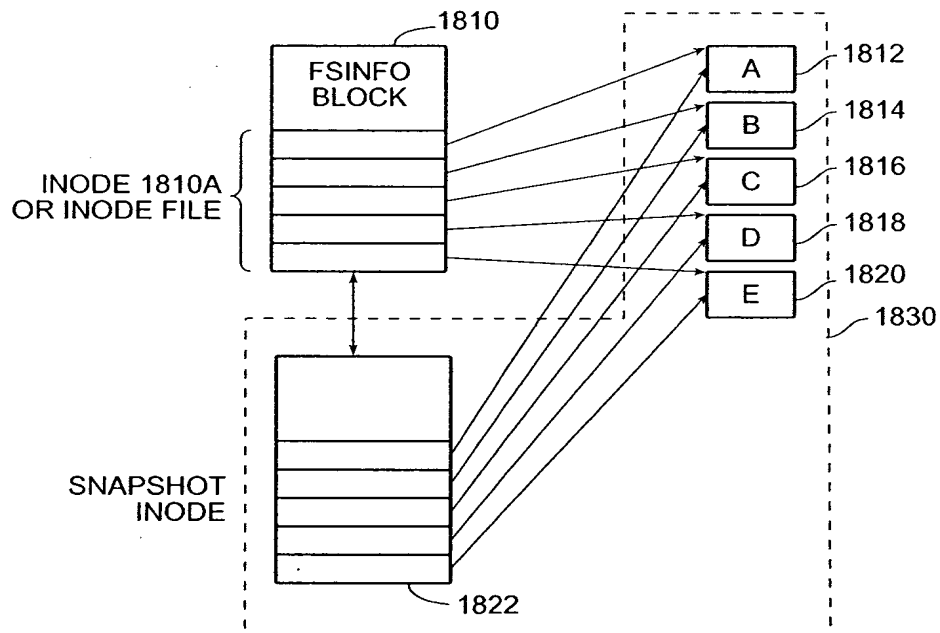


FIG. 18B

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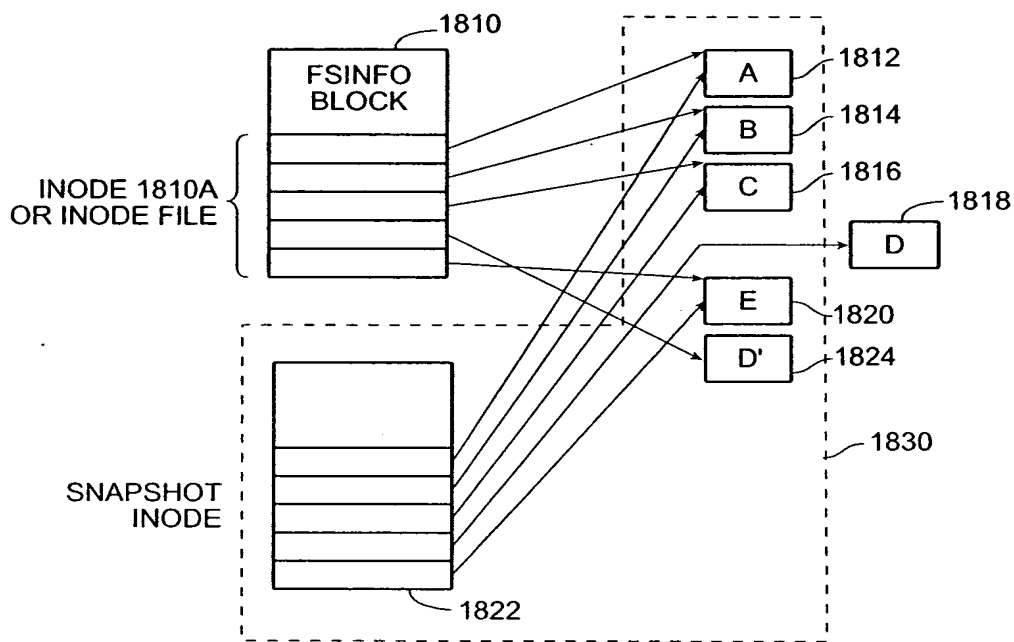


FIG. 18C

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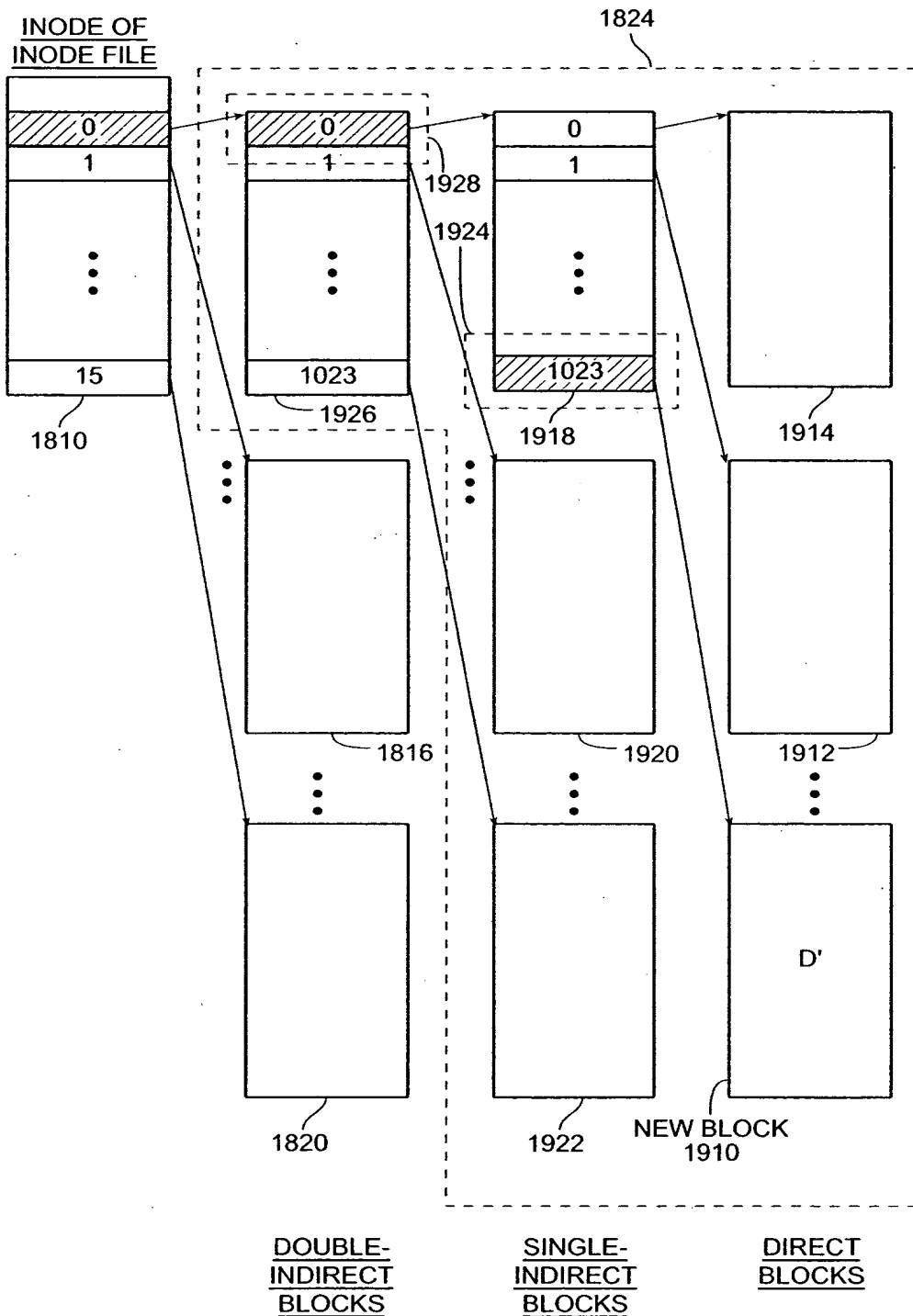


FIG. 19

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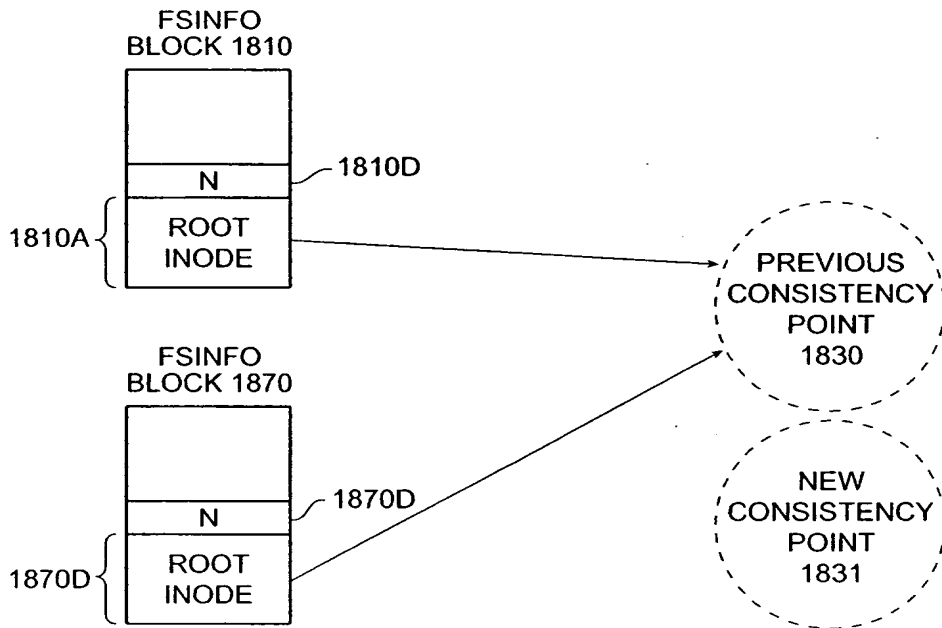


FIG. 20A

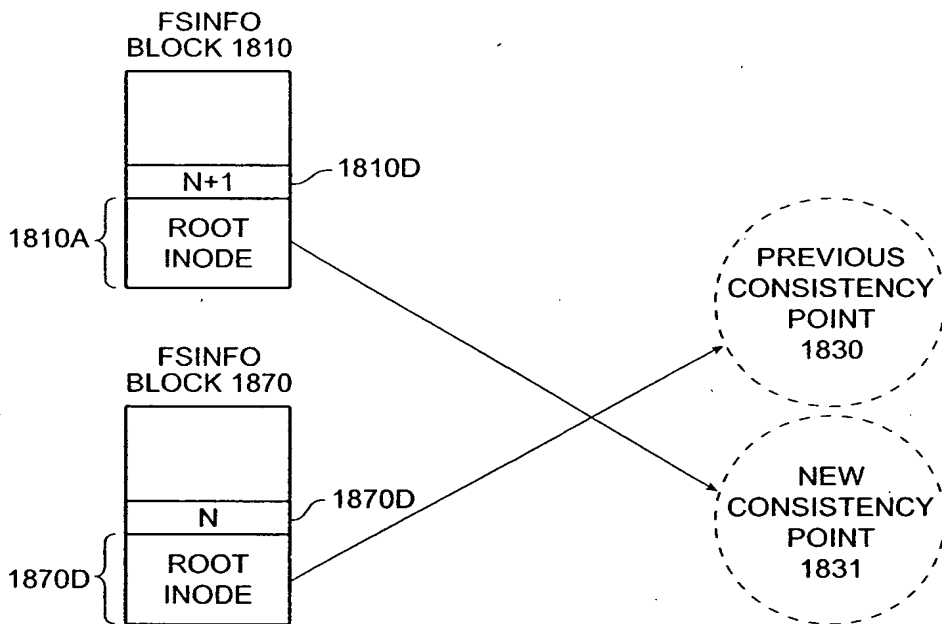


FIG. 20B

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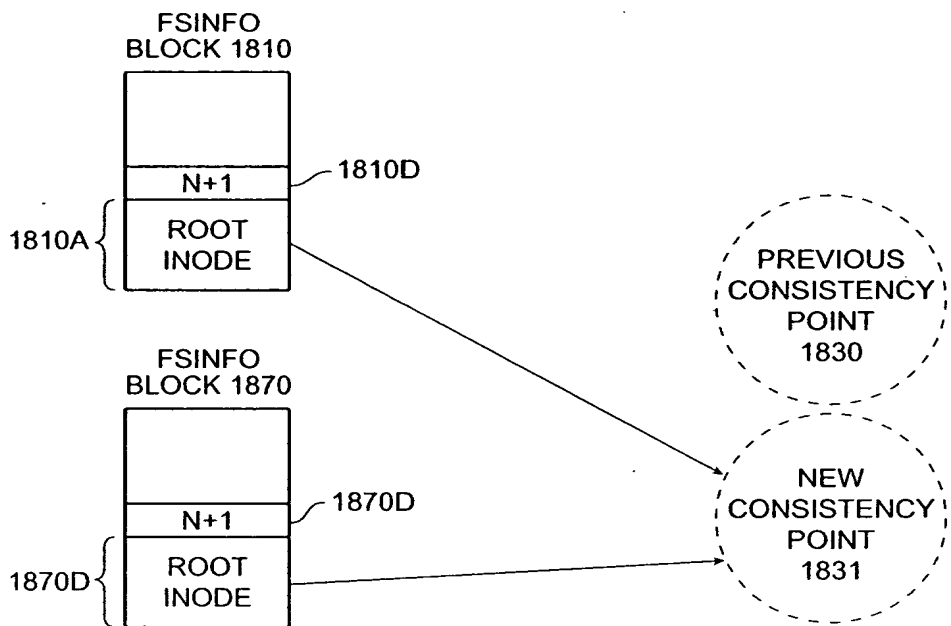


FIG. 20C

SNAPSHOT 2 BIT

BIT 31 (CP-BIT)

BIT 2

BIT 1

BIT 0 (FS-BIT)

BLOCK #	BIT 31 (CP-BIT)		BIT 2	BIT 1	BIT 0 (FS-BIT)	
2304 ←	1	...	1	1	1	2326A
2306 ←	0	...	0	1	0	2326B
2308 ←	1	...	1	0	1	2326C
2310 ←	1	...	1	1	1	2326D
2312 ←	1	...	1	1	1	2326E
2314 ←	0	...	0	1	0	2326F
2316 ←	1	...	1	1	1	2326G
2318 ←	1	...	1	1	1	2326H
2320 ←	0	...	0	1	0	2326I
2322 ←	1	...	1	0	1	2326J
2324 ←	0	...	0	1	0	2326K
2326 ←	1	...	1	0	1	2326L
2328 ←		...				
		⋮				

4 KB BLOCK 2326

FIG. 21E

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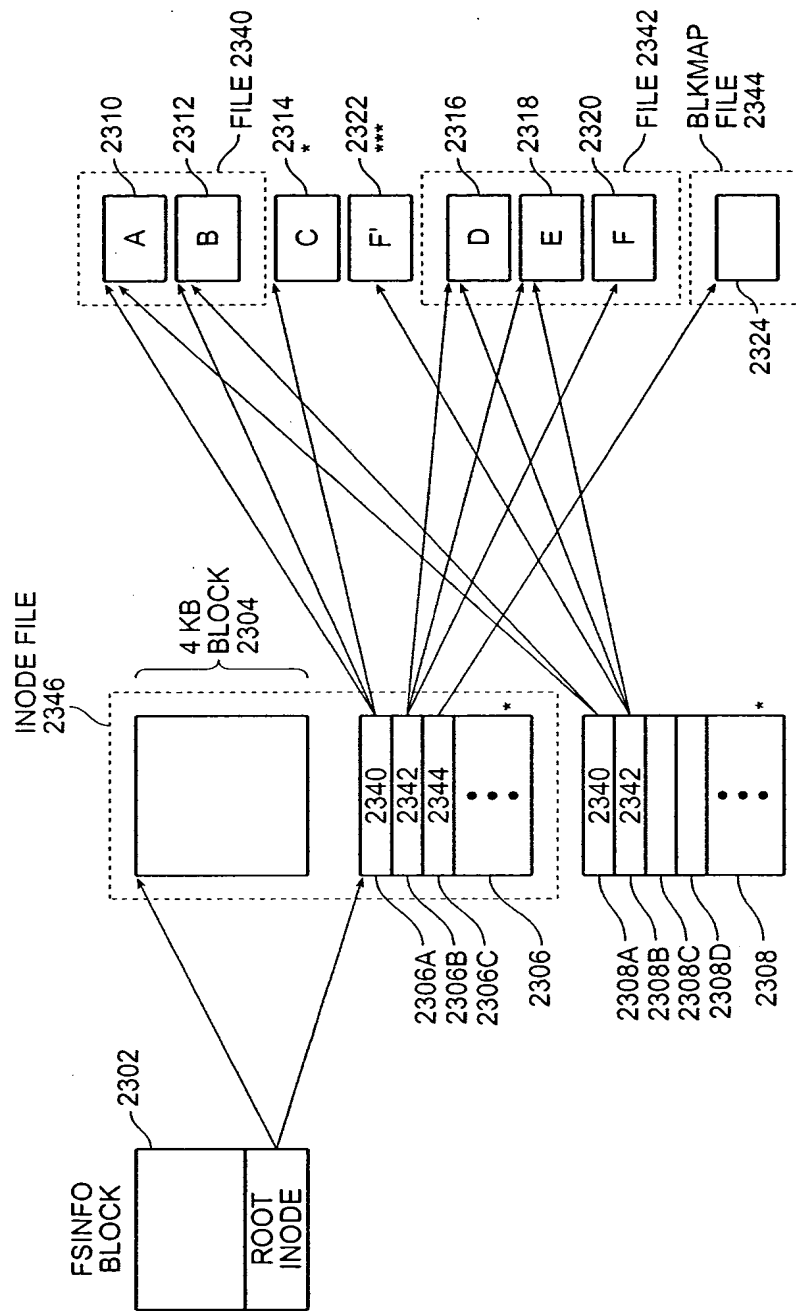


FIG. 21A

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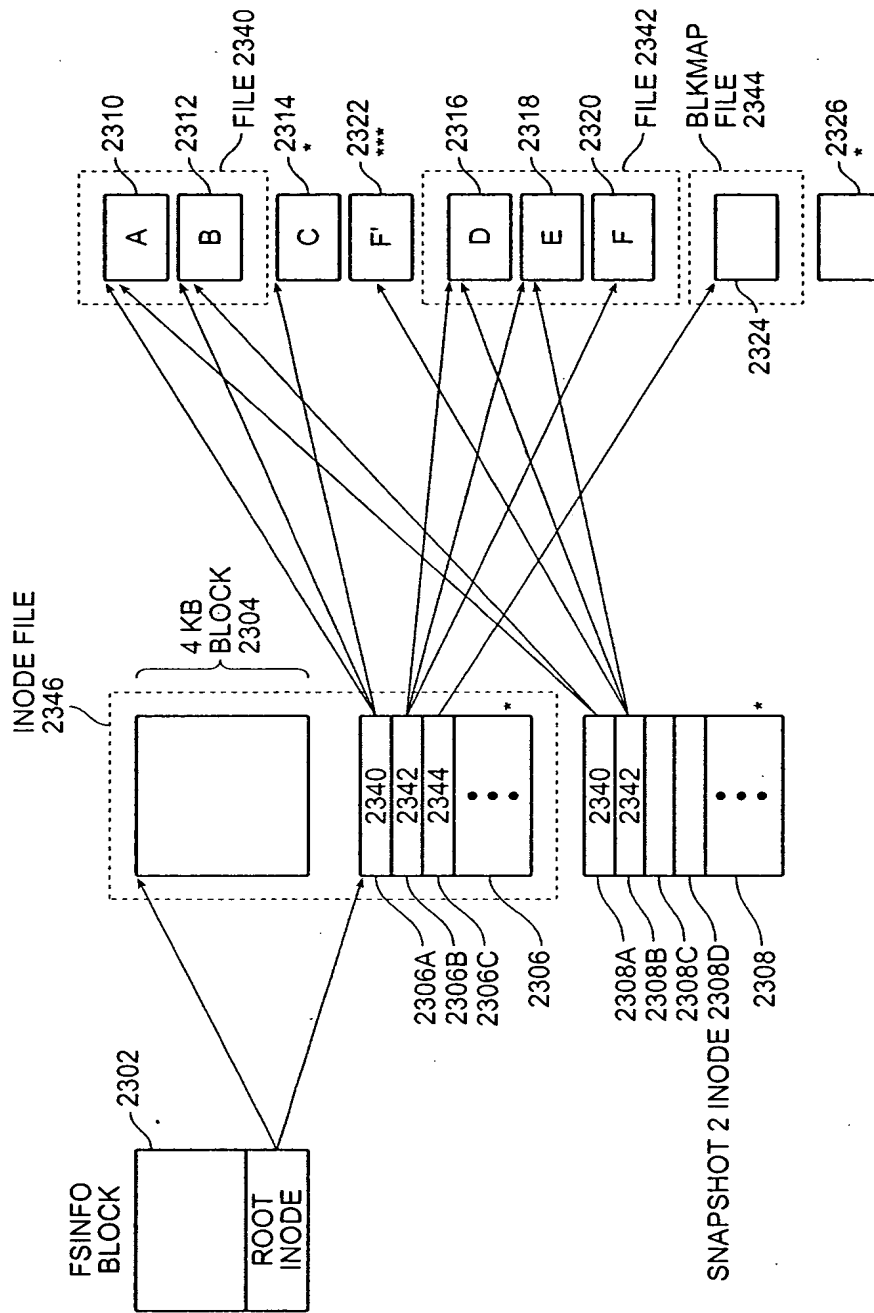


FIG. 21B

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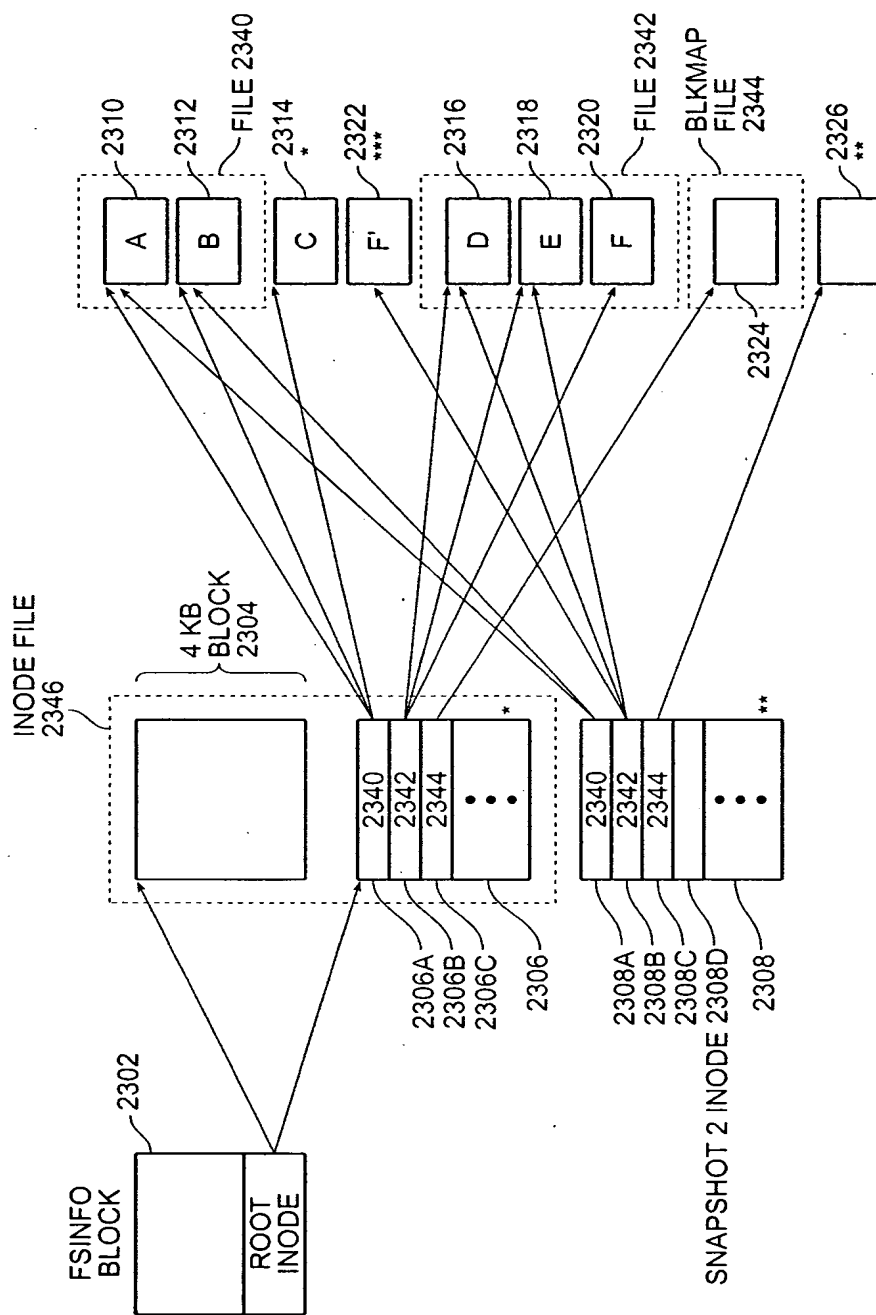


FIG. 21C

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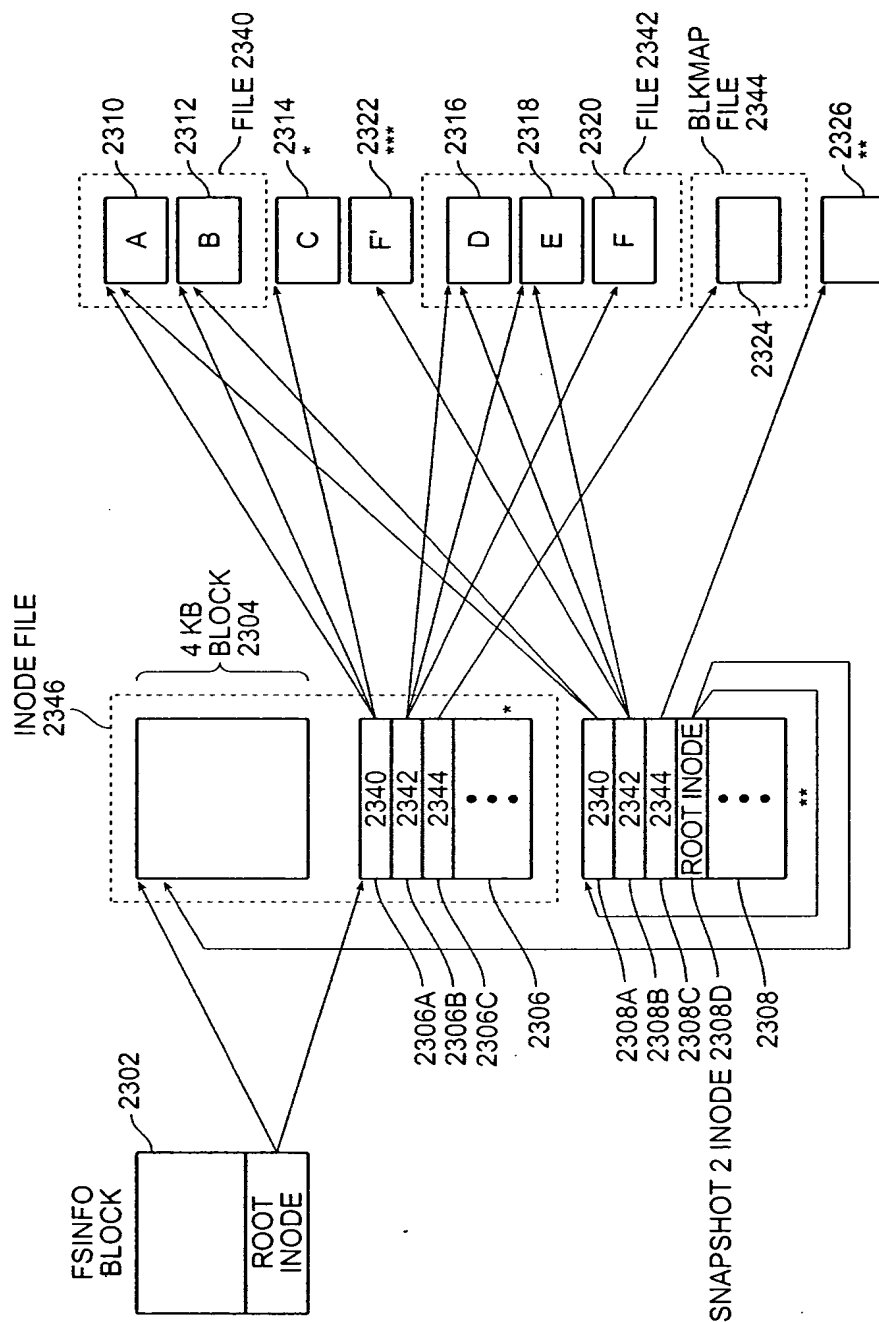


FIG. 21D

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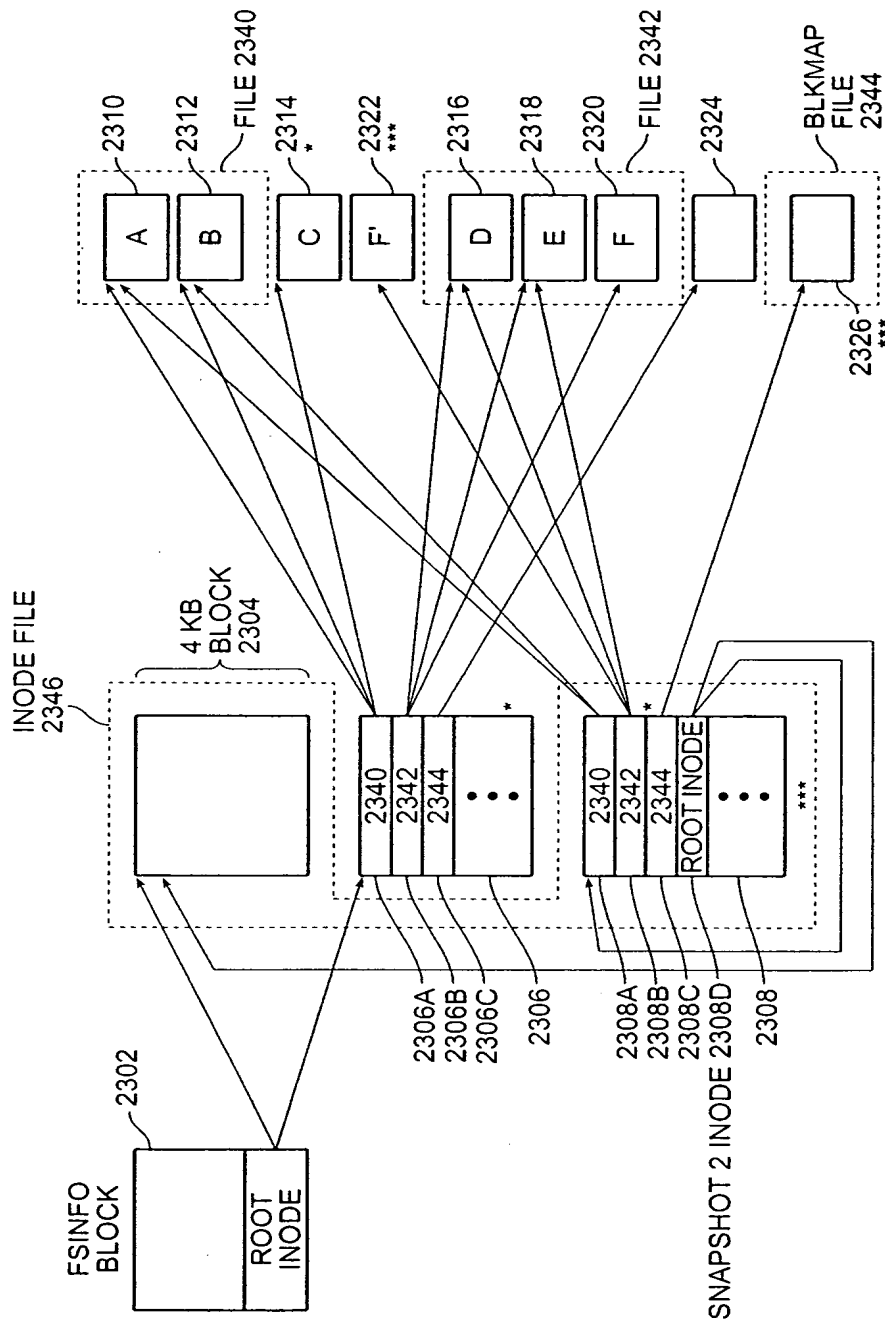


FIG. 21F

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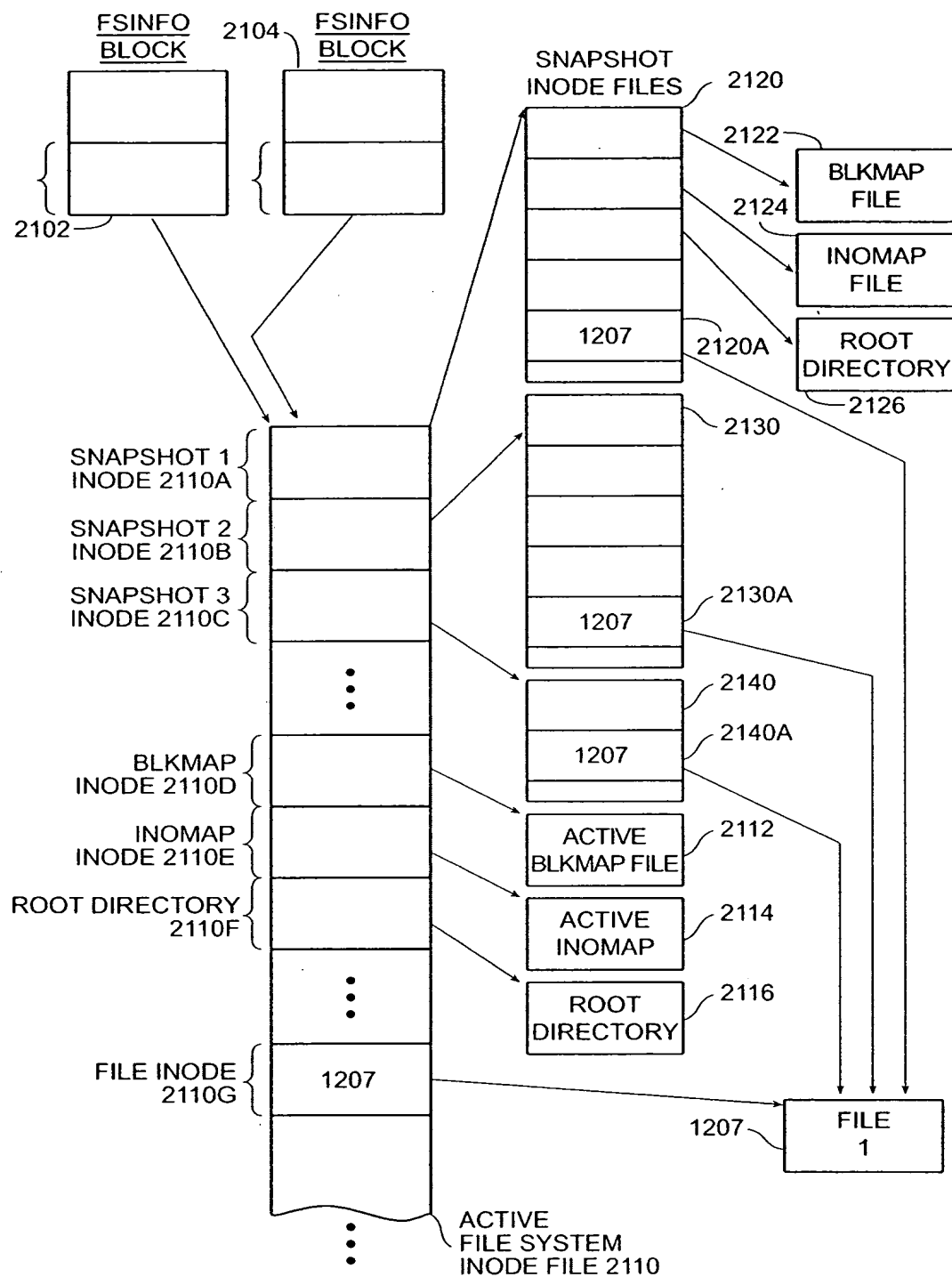
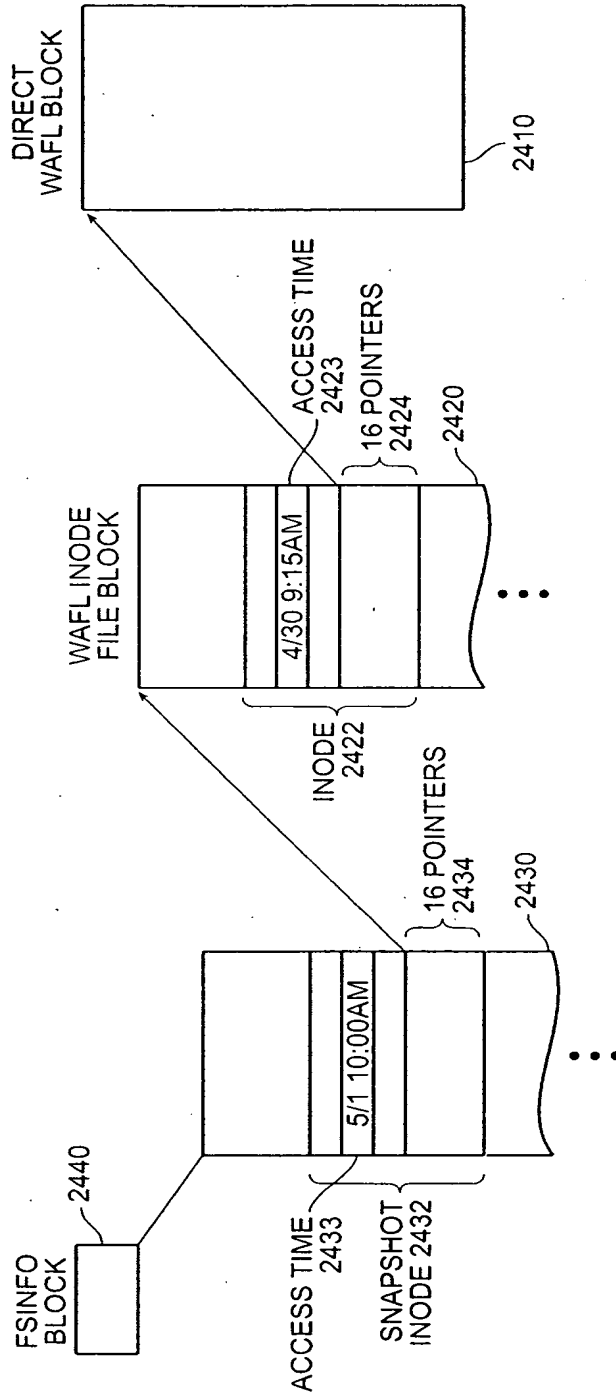


FIG. 22



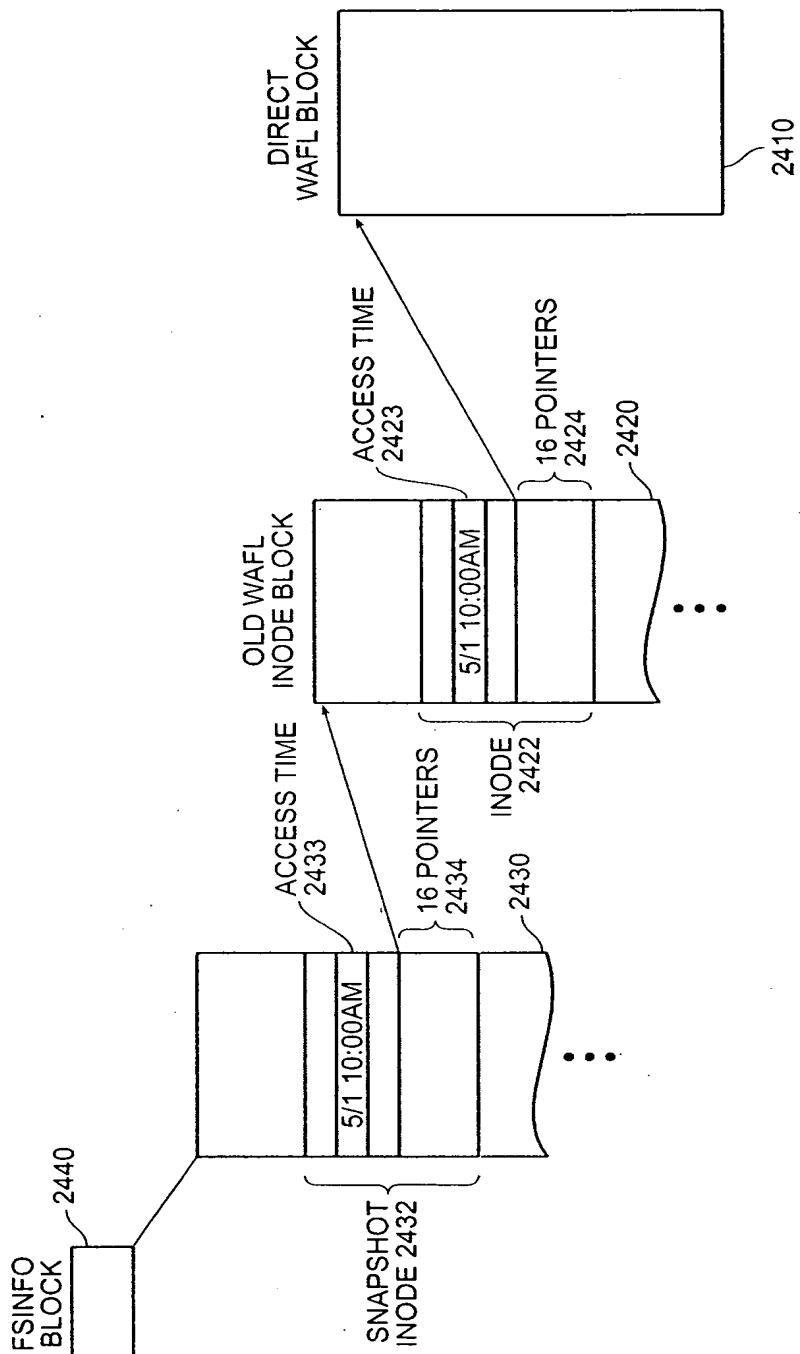


FIG. 23B